User Manual

For EPOS 4 Excel v1.2.3

Manual Version: 24/4/2012

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The GNU Lesser General Public License version 3 which covers EPOS 4 Excel can be found in Appendix B

1. Introduction

What is EPOS 4 Excel?

EPOS 4 Excel (E4E) is a Microsoft Excel macro enabled workbook which provides a basic electronic point of sale (EPOS) system. E4E is programmed in Excel VBA and uses Excel worksheets as the basis of its user interface. It incorporates the ability to make sales, print receipts (on a receipt printer or a normal printer), keep track of stock, store customer orders for later processing and it can even cope with sales promotions (monetary discounts, % discounts, buy X get Y free, buy X for £ Y).

E4E was originally written to be used in conjunction with an internet based computerised accounting / stock management / sales system. In this case E4E enables sales to be made off-line when an internet connection is not available. The sales data is stored in a customisable .CSV (comma separated values) format which can be then uploaded to your separate computerised accounting / stock management system at a later convenient moment.

Does it work? E4E has been tested extensively by an internet book seller that also sets up temporary bookstalls. They have used it in environments with single tills and multiple tills networked together.

System Requirements

Essential:
Microsoft Excel 2007 or later installed on every computer you wish to use E4E on
(E4E will not work on Microsoft Office Starter Editions or the Mac Version of Microsoft Office)

Optional:
USB barcode reader
USB receipt printer (NOTE: E4E has only been tested with the Star TSP113 receipt printer) AND / OR an ordinary printer
A computer network to enable the connecting of multiple tills together (See Appendix A for a simple example of how to do this)
A separate way of processing credit / debit card payments

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2. Opening EPOS 4 Excel and Enabling Macros in Excel

Opening the EPOS 4 Excel worksheet

1. Download the E4E worksheet (epos4excel_v1.2.xlsm) from the website (epos4excel.weebly.com) and save to a location on your computer.
2. Open the worksheet just by double clicking on it. This will automatically open Excel and load the worksheet
3. Alternatively, open Excel and use the menu File - Open to select and open the worksheet file.

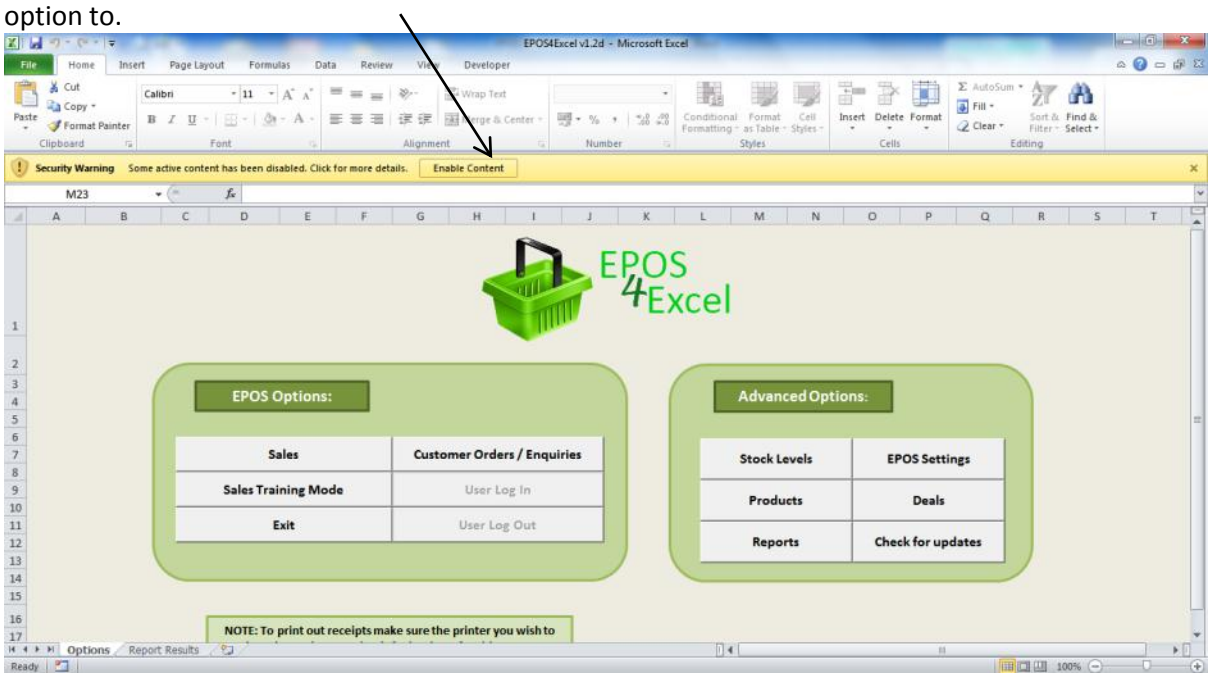
NOTE: you need Windows Excel 2007 or later already installed on the machine to be able to use E4E

INTERNET EXPLORER USERS: Internet Explorer sometimes downloads an Excel file and changes the file extension to .zip and you won't be able to open the file in Excel. If this happens to then you will need to manually rename the file from epos4excel_v1.2.zip to epos4excel_v1.2.xlsm

(see http://www.mediacollege.com/microsoft/windows/extension-change.html for more details about changing the file extension)

Enabling macros in Excel

To use E4E macros must be enabled in Excel. When you first open the E4E you may see a security warning that the file indicates that macros which have been disabled OR that some active content has been disabled. Enable macros or the active content for the E4E workbook if you are given the option to.



Alternatively you can enable macros manually for all Excel workbooks (not just the E4E workbook) in the follow ways:

Excel 2010

First click the Excel File Menu and select Options from the left sidebar. In options, select the Trust Center from the left sidebar and click the Trust Center Settings button on the main window.
Now in Trust Center Settings dialog window, select Macro Settings from the left sidebar, choose the Enable All Macros option and hit OK.

Excel 2007

Click the Microsoft Office Button , and then click Excel Options.
Click Trust Center, click Trust Center Settings, and then click Macro Settings. Click the options that you want ie. Enable all macros (not recommended, potentially dangerous code can run).
Clicking this option to allow all macros to run.

WARNING: After you have finished using E4E it is important that if you manually enabled macros you disable them again. Follow the instructions above and choose 'Disable all macros with notification'. Leaving macros enabled can leave your computer with a security vulnerability. No liability will be accepted for any loss or damage caused by you leaving Excel macros enabled on your computer. You have been warned!!

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3. Customising EPOS 4 Excel for your company

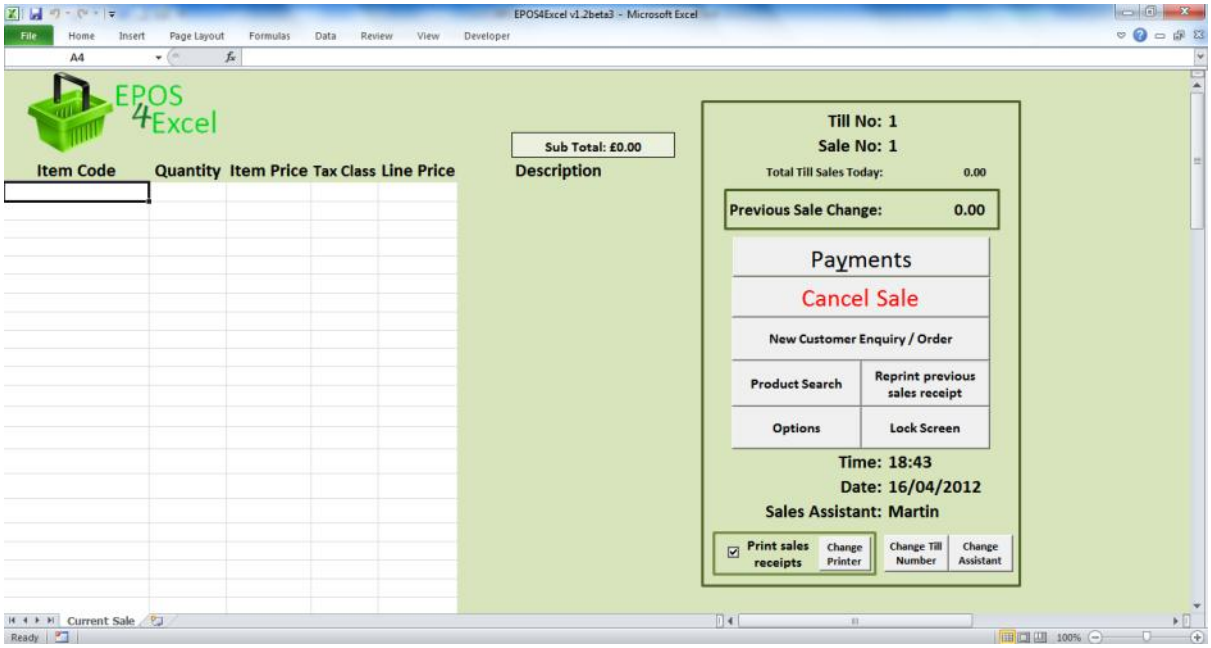
It is possible to customise E4E for your company in the following ways:

1. The logo on the sales screen
2. The logo and company details on the receipt.
3. The currency and payment types
4. The layout of the sales data storage file
5. The background colours (Advanced users only)

NOTE: These customisation changes only affect the specific E4E workbook they are made on. If you are running E4E on multiple computers over a network it is therefore a good idea to make any customisation changes to the E4E workbook before you place copies of it on all your tills. Otherwise you will need to make the same customisations on all tills individually.

WARNING: The more you customise about the E4E worksheet (eg. colours, logos etc.) the more you will have to re-customise if you download a newer version of the worksheet with bug fixes or new features. Therefore it is advisable to keep your customisations a minimum!

Customising the logo on the sales screen



1. On the sales screen click the Excel 'review' menu (top of screen) and select 'unprotect sheet'
2. Click once on the 'EPOS 4 Excel' logo and press the 'delete' key on your keyboard to delete the logo.
3. Click on the Excel 'Insert' menu and select 'picture'. Choose the file containing your company logo picture and insert it. Move and adjust the size of the new logo as appropriate.
4. Click on the Excel review menu and select 'protect sheet'. Click 'ok' in the pop up box WITHOUT changing any of the other settings in the pop up box.
5. The logo has now been changed.

Customising the company logo and company details on the receipts

E4E enables you to print either a 'narrow receipt' using a specialist USB receipt printer or a 'wide receipt' using an ordinary USB A4 printer. You can choose which will be printed using the receipt settings screen which is accessible from the EPOS settings screen.

You will need to customise the narrow receipt template and wide receipt template for your company by editing the company logo and company details. These can be found via the receipt settings screen. See editing the receipt settings section of this manual for more details about how to do this.

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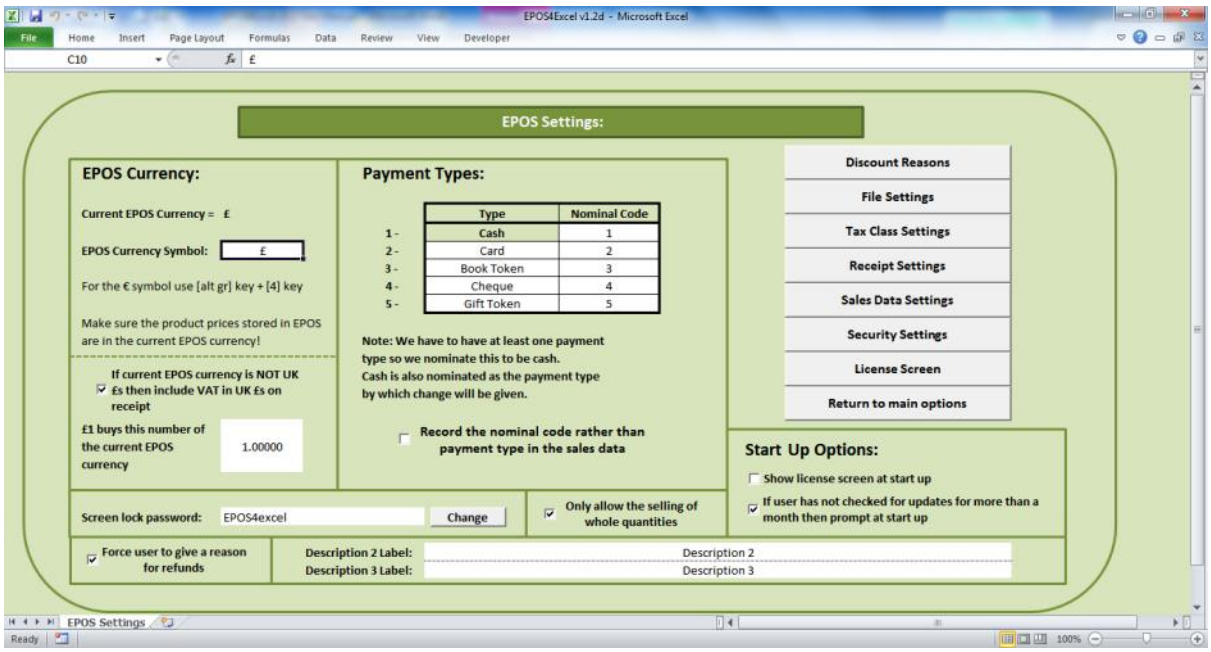
Customising payment types and currency

E4E allows payment for products to be made in up to five different ways. To change the available payment types in E4E go to the EPOS settings screen.



Payment type 1 will always be fixed as cash, but you can chose payment types 2-5 to be anything you want. Change the names for your payment types by clicking in the relevant boxes. If you want less than five payments simply leave any of the boxes blank.

If you are using E4E in conjunction with a computerised accounting package you can enter the nominal code corresponding to the payment type. There is then the option, by ticking the checkbox, to record the nominal code rather than the description of the payment type in the sales data.

To change the currency symbol to the one relevant for your country enter your currency symbol in the EPOS currency symbol box. This currency symbol will be used on the receipts etc. You must make sure the item prices stored in the product list are in this currency.

Customising the sales data file settings

See the sales data settings section of this user manual if you wish to customise the layout of the sales data file.

Advanced Users: Cell protection and changing the E4E screen background colours

Background colours: Unprotecting the Excel worksheet that corresponds to a specific E4E screen also allows you to:

1. Change the background colours on E4E screens by changing the cell fill / background colour.
2. Change the colours of any 'shapes' which make up part of the user interface of E4E

All user editable cells on E4E screens have a white background to indicate that these cells are editable. Do not the change the cell fill / background colour of white cells to keep this continuity in E4E, however feel free to change all other cell fill / background colours as appropriate eg. to your company colours OR a colour scheme that complements your company logo on the sales screen.

Note: On the 'current sale' worksheet column F stores the deal code related to a product in the sale. This is hidden from the user by setting the font colour to be the same as cell background colour. If you change the cell background colour on the 'current sale' worksheet then also set the font colour of column F to be the same colour as the cell background colour, this will keep the deal code information hidden from the user.

Cell protection: All worksheet cells in E4E are set to be protected from editing / locked unless they have a white background. Cells with a white background are editable and have no protection.

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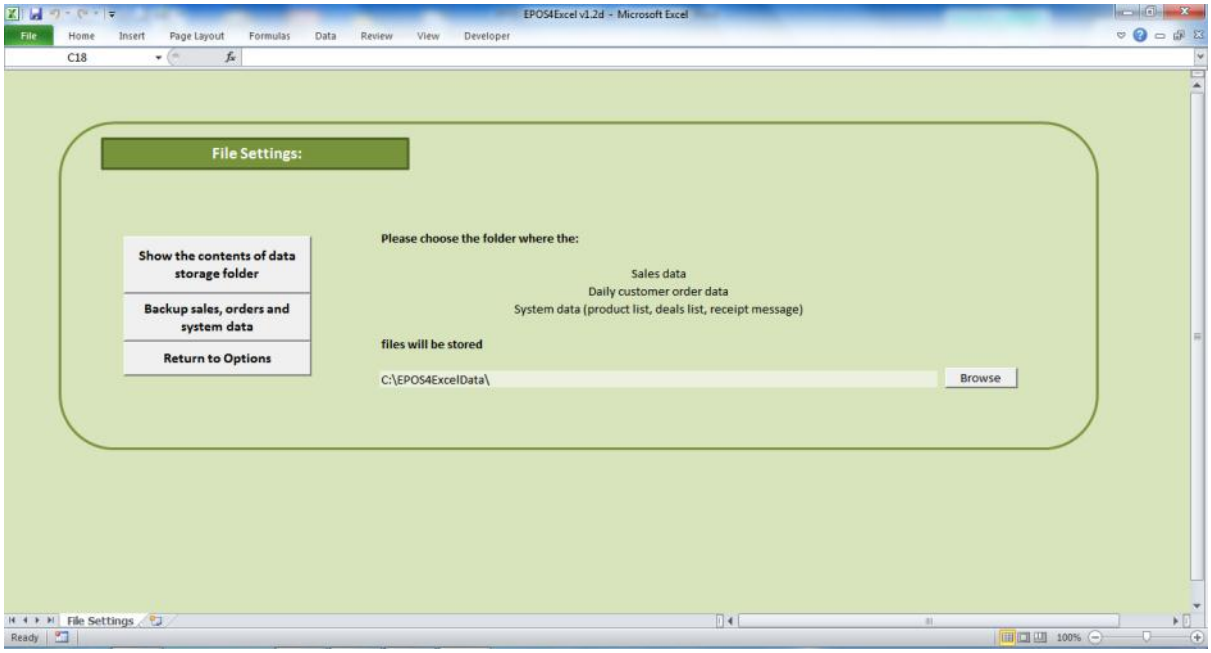
4. Setting up EPOS 4 Excel for use

There are various steps you need to complete to set up E4E before it can be used for making sales. Some of these steps are essential and some are optional as indicated below.

EPOS 4 Excel data file settings (Essential)

You need to choose the folder where the EPOS 4 Excel sales data, customer order data and the system data files will be stored. To choose / change the locations of the files:



1. On the file settings screen (found via the EPOS settings screen) click the 'browse' button next to the folder name and change the storage folder location as appropriate.
2. If the old storage folder location exists you will be asked if you want to copy any product lists / system data and any sales / order data to the new storage location. Click 'yes' to both if you are just changing your storage location for a previous installation of E4E. Click 'no' to both for starting a completely new installation of E4E.
3. If you are connect multiple tills together over a network then the storage folder location will need to point to the same folder location on each individual instance of E4E that is running ie. on every till.

Creating a product list (Essential)

There are two ways to create a product list. Firstly, by manually adding products one by one. For more details of how to do this see the 'Add / alter product details' section of this manual. Secondly, the quickest way to create a product list is to create an excel workbook (.XLS or .XLSX) to import into E4E. The Excel workbook should have the following columns:

Column A:	SKU / Item Code / Item Barcode
Column B:	Item Description
Column C:	Gross Price (including VAT)
Column D:	Item Tax Class
Column E:	Deal code (You may leave this column blank)
Column F:	Product Description 2 (You may leave this column blank)
Column G:	Product Description 3 (You may leave this column blank)

NOTE: Columns A-D are essential, all other columns you may leave blank. Column headings should be placed in row 1 of the worksheet. If you place item details in row 1 then this item's details will not be imported.

After you have created this workbook you can then import the product details into E4E. See the 'Importing Products' section of this manual for more details.

The **SKU / Item Code** should be a number if you are using a barcode scanner. If you decide to enter item codes manually you can use mixture of numbers and letters for your item codes. This item code cannot be 0 (zero)

The **Gross price** should be the price per individual item (eg. price per book) or unit price (eg. price per kilogram, which would allow you to sell loose items in varying proportions of a kilogram). On the EPOS setting screen you can choose to only allow the selling of whole number quantities of products (ie. you would then not be able to sell varying quantities of loose items)

The **item tax class** is a code which represents the items % VAT rate eg. T20 representing a 20% VAT rate. These codes and the corresponding % VAT rates will need to the stored E4E's tax settings. See the 'Editing Tax Settings' section of this manual for more details.

The **deal code** is a code which indicates the product is linked to a deal which E4E will automatically add to the sale if specific items are in the sale basket. For more details see the 'deals' section of this manual.

Product Description 2 / Product Description 3 are two extra customisable fields for describing the item. See the 'products' section of this manual for more details.

E4E has been successfully tested with over 8,000 products on the product list. Theoretically E4E could hold over 1 million products but it may run too slowly!!

Create an initial stock levels file (Optional)

If you wish to have an accurate measure of stock levels, then before using E4E to make sales you will need to generate an Excel workbook (.XLS or .XLSX) containing a list of the levels of stock for each item. Create the file list with the following columns (no column headings):

Column A: SKU/ item code
Column B: the initial stock levels for each item.

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NOTE: The initial stock levels can be whole numbers or decimal numbers eg. if you sell items in price per kilogram the initial stock levels would be the number of kilograms you have. The item price on the product list would then be the price per kilogram.

This initial stock levels file should then be imported into E4E using the import multiple deliveries button on the stock levels screen (see the 'stock management' section of this manual for further details). First clear the stock levels if necessary. Then import the initial stock levels file. This will set the initial stock levels in E4E.

NOTE: If you do not import an initial stock levels file E4E will still record the numbers of each item sold but you will not have an accurate record of what you have in stock.

Setting up a printer and printing receipts (Optional)

To print receipts you will need the do the following:

- Make sure you have a USB receipt printer AND / OR an ordinary printer plugged in to every till (NOTE: Some printing operations in E4E will require an ordinary printer)
- Make sure you set the printer you wish to print receipts on as the default printer on the computer (there is a button to change the active printer for Excel on the sales screen if you forget)

When making sales receipts will be generated and printed if the 'print sales receipts' checkbox is ticked on the sales screen. If you do not wish to generate receipts make sure you untick this checkbox **every time** you start up E4E (the default setting on E4E on loading the worksheet is to print receipts).

NOTE: If you do not have a printer connected to the computer and you leave the print receipts checkbox ticked then receipts will be generated and stored in your computer's printer queue. The next time you attach a printer to the computer these stored receipts will then be printed out. It is therefore advisable that the checkbox is unticked if you do not have a printer attached to the computer or if the printer stops working.

You can print a test receipt to check the receipt printer is working by clicking on the 'print test receipt' button on the receipt settings or receipt templates screens (accessible via the EPOS settings screen).

If the receipts don't print, check that:

- The 'Print sales receipts' check box is ticked on the sales screen
- The relevant printer drivers are correctly installed
- The printer is set as the default or active printer (use the button on the sales screen to change the active printer)
- The printer is connected to the computer correctly
- The printer is switched on and plugged into the mains electricity
- The printer has paper in it

If this does not solve the printing problem try the following:

Unplug the printer from the USB port. Go to the Windows start menu. Go to the control panel and open 'Devices and Printers'. Delete any printers with the name of your printer (there may be more than one). Now plug in the printer into the USB port. The computer should now recognise / install the printer. Try printing out receipts again.

If paper runs out in the middle of printing a receipt you can always re-print the last sales receipt, after loading new paper, by clicking the 'reprint previous sales receipt' button on the sales screen. This option is only available if the 'print sales receipts' checkbox is ticked on the sales screen. The last receipt generated will be held in memory and you can reprint it even if you leave the sales screen and return later.

NOTE: E4E has been run successfully using the Star TSP113 receipt printer and the column width of the receipt template on the narrow receipt template screen has been set for this receipt printer. You may need to adjust the column width of the receipt template for E4E to work successfully with another receipt printer. Experimentation for your particular set up may be necessary!! See the editing receipt settings section of this manual for more details.

Setting up E4E Security Settings (Optional)

If you wish to limit who can do what with E4E then is necessary to enable the E4E security settings and set up security passwords. See the E4E security settings section of this manual for more details.

NOTE: The security in E4E would easily be cracked by a person with an advanced knowledge of Excel. However it does provide a basic level of protection.

Setting up Discount Reasons / Deals (Optional)

With E4E you can force a sales assistant to give a reason for a discount to an item price or sale total from a predefined list. For more information see the deals and discounts section of this manual.

NOTE: It is recommended that once you have customised the E4E worksheet that you keep a back-up copy. This means that if the worst happens and the customised copy of E4E which you are using to make sales becomes unusable, you can delete it and put in its place a copy of the back-up. This will stop you having to re-customise E4E again.

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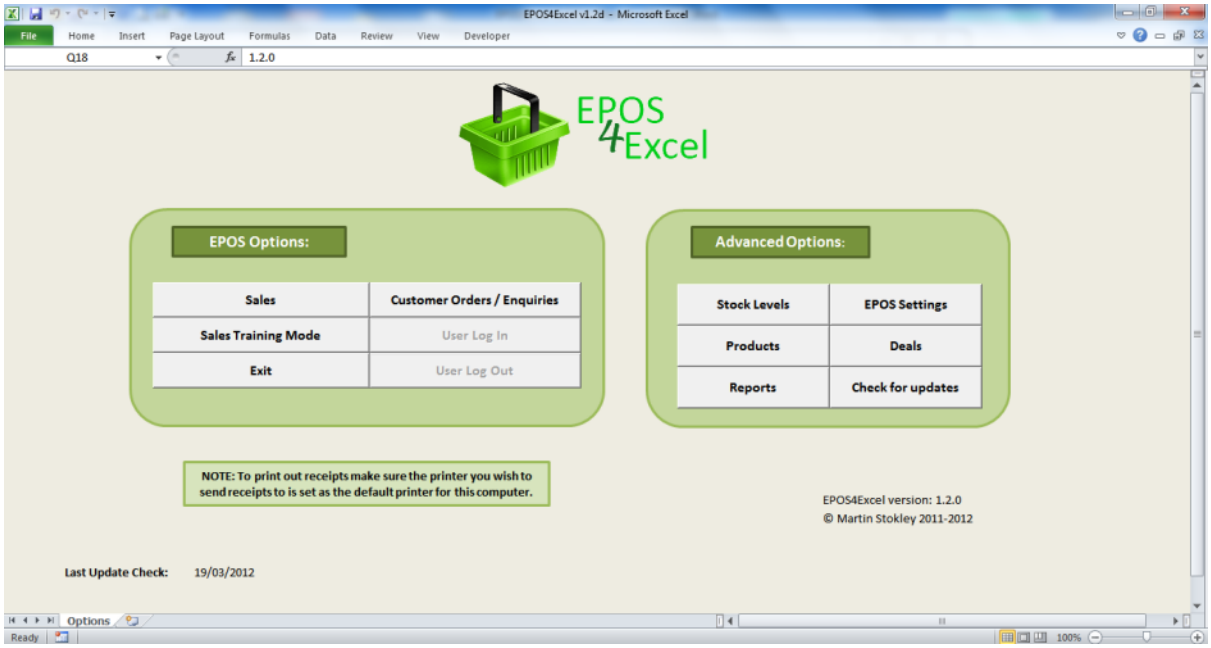
5. Making sales with EPOS 4 Excel

Important: Whenever manually entering numbers / information on an Excel worksheet always make sure you press the 'Enter / Return' key on the keyboard to make the system update properly.

Starting out

1. Open EPOS 4 Excel
2. Make sure that Macro's are enabled in Excel (See the section 'Enabling Macros in Excel') and you have added some products
3. Click on the 'Sales' button
4. You will be asked for the sales assistant first name. This will be printed on the receipt ('You were served by: XXXXXXX') and stored in the sales data so the sales assistant making the sale can be identified at a later date if necessary. **NOTE:** If the 'force user to give sales assistant name' option is ticked in the EPOS setting then you will have to give a sales assistant name.
5. If no sales have been made today using E4E you will be ask to enter a till number. If different people are selling in two different places on the same day you need to make sure that they use different till numbers. **NOTE:** If you make sales, then enter sales training mode and then return to make sales you will be asked for your till number again. (The sales training mode automatically sets the till number to 1.)



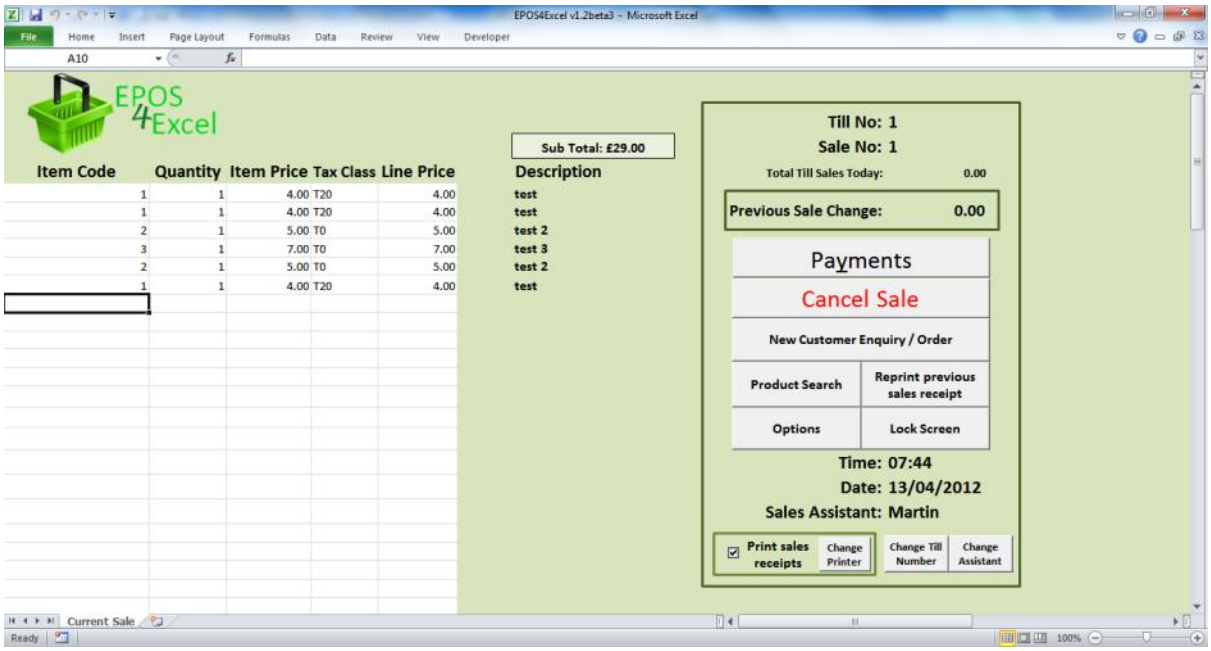
Adding Products to the Sale

1. Scan or manually enter the barcode / item code of the first product into the first free cell in the 'Item Code' column. The price will automatically be looked up. (Make sure you press the ENTER key if you manually enter the barcode).
2. Alter the quantity in the 'quantity' column if there are more than one of the same product. (NOTE: If you are selling loose items by weight, for example, you would enter the weight here eg. how many kilograms the customer wants to buy and your item price would then be the price per kilogram)
3. Check the 'item price' column against the price on the product. If it is different, see the changing an item's price section below.
4. Repeat this for each product by scanning or entering the barcode / item code in the next free cell in the 'Item Code' column. (You cannot add more than 97 product rows in a single sale)

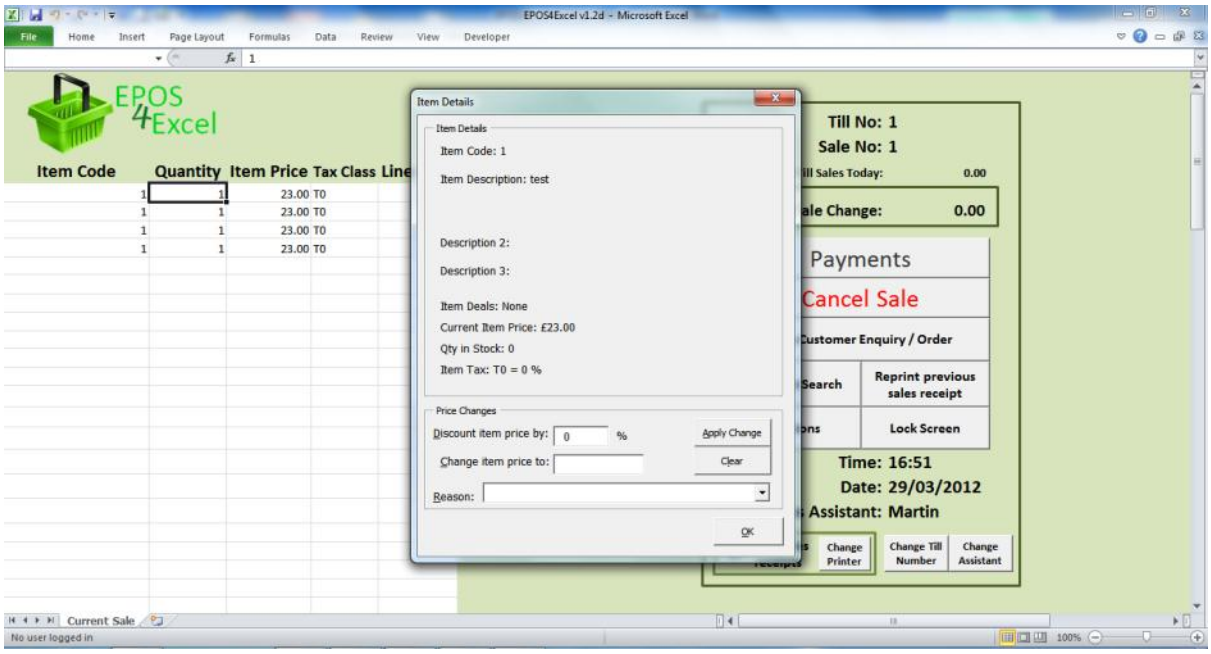
NOTE: Only the first 25 characters of the item's description will appear on the sales screen. To see the item's full description, double click with the left mouse button on the item's row on the sale screen to bring up the item details box. This will include full details about the item including how many are in stock.

NOTE: LINE PRICE = QUANTITY x ITEM PRICE (You will not be able to change the line price amount)

NOTE: The sub-total value shown on the current sale screen is the sum of the line prices ie. the sale total before any sale discounts or deals are added



Changing an item's price / discounting an item's price by a percentage



To change an item's price double click with the left mouse button on the item's row on the sales screen. This will bring up the item details box.

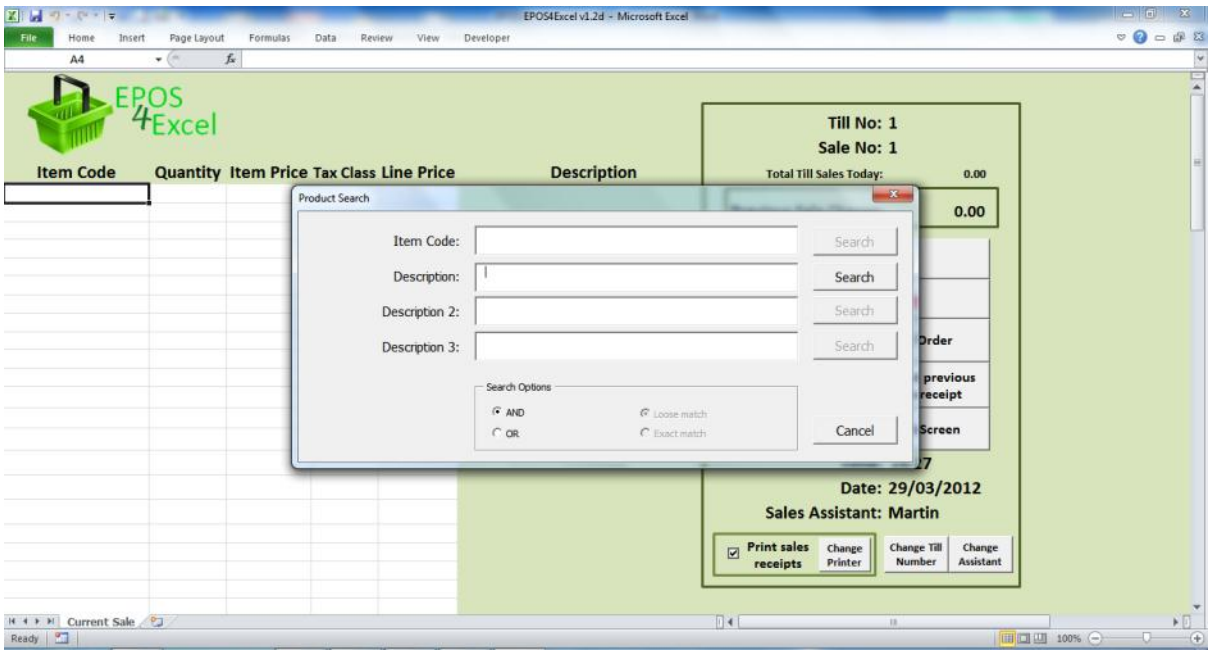
1. To change the item's price, enter the new price in the 'change item price to' box (numbers only). Choose a reason for the price change from the drop down menu. Click apply changes to apply the discount and return to the sales screen.
2. To discount an item's price by a percentage amount enter this amount in the 'discount item price by %' box (numbers only). Choose a reason for the price change from the drop down menu. Click apply changes to apply the discount and return to the sales screen.

NOTE: If you enter both a price change and percentage discount at the same time, then the item's price will be changed first and then the percentage discount applied to this new price. This order of applying the discounts works in the retailers favour.

NOTE: If the 'force user to give discount reasons' option is ticked on the discount reasons screen (EPOS settings) then you will not be able to change the item's price without giving a reason for the price change / discount.

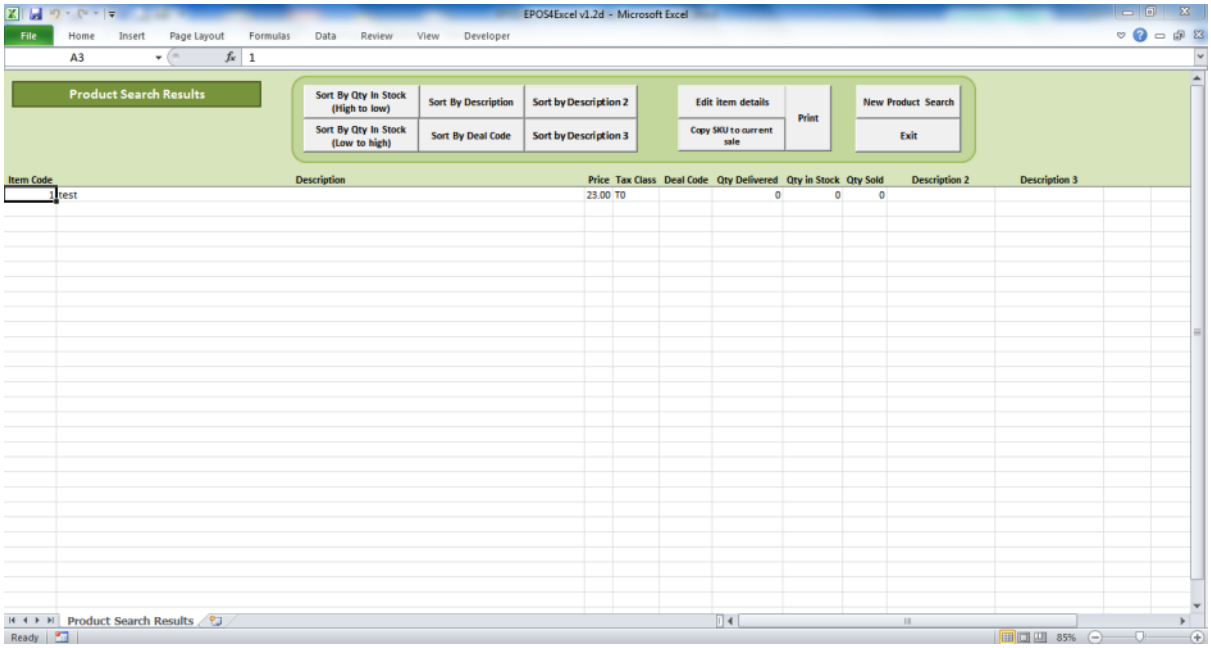
Manually looking up a product's code

If you find a product without an item code you can always look up the item's code manually. On the sales screen click the product search button. Enter your search terms and click search. For more details on searching and the search options see the products section of this manual.



You will then be shown the product search results screen with a list of products related to your search terms. Click on the item code / SKU for the product you wish to add to the sale. Click the copy SKU to current sale button, you will be asked if this product is for a prepaid order and then you will be returned to the sales screen with the item's code having been added to the sale basket.

If the product is not found, you can always click the new product search button to try searching again.



Deleting an Item from the Sale

1. In the 'Quantity' box for the item you wish to delete enter the number '0'.
2. The item will be deleted from the product list and a box will pop up confirming the item has been deleted.

View the full details of an item in the sale

To view the full details of an item in the sale, double click on the item's row on the sales screen using the left mouse button. This will bring up the item details window.

Cancelling a sale

1. Click the 'cancel sale' button.
2. A box will pop up asking if you 'really want to CANCEL the sale?' Click 'Yes'.
3. Any products already entered will be cleared ready for a new sale.

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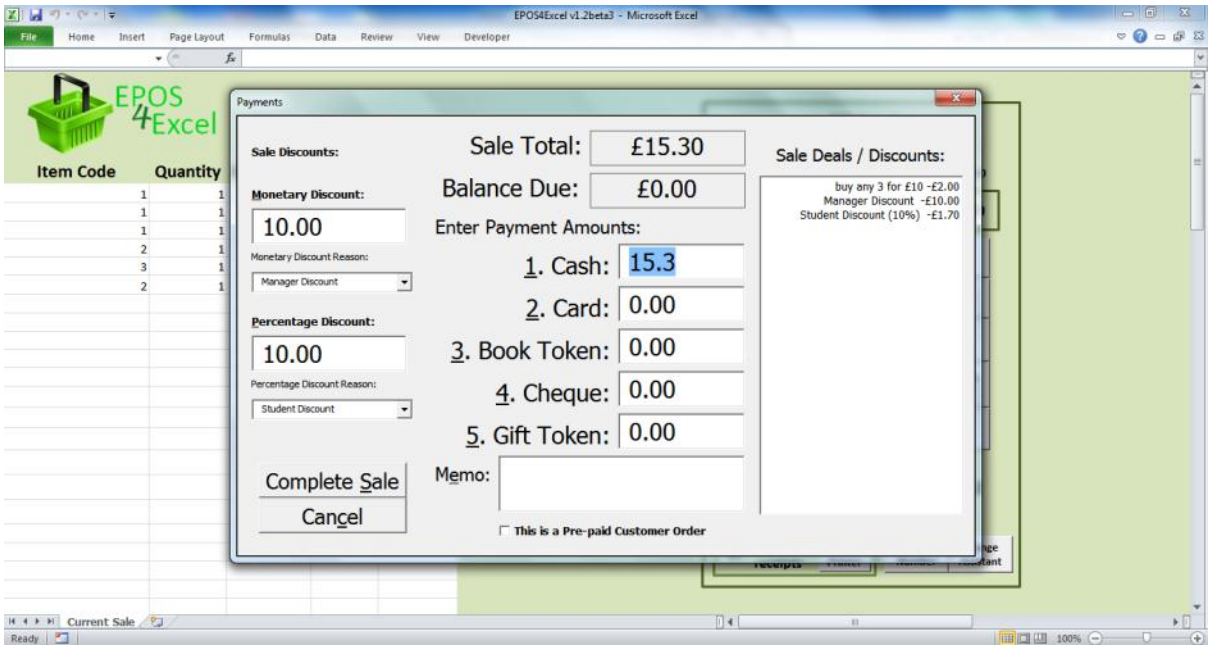
Taking payment and adding monetary / percentage discounts to the sale



1. Click the payments button on the sales screen OR use the keyboard shortcut 'Alt y'.
2. The payments window will pop up displaying the sale total, balance still and what deals / discounts have been applied to the whole sale.
3. Enter any monetary discount / percentage discount (numbers only) off the whole sale and choose reasons for the discounts.
4. Enter the payment amounts the customer is paying with in the relevant payment types boxes. If you click in a payment amount box that has an amount zero in it, E4E will automatically put the balance due in the payment amount box. NOTE: If you set up E4E to have less than five payment types then one or more boxes on the take payment window will be disabled.
5. In the memo box you can record any necessary relevant information to the sale eg. 'problem with card machine – check payment was not taken twice' OR full details of any coupon discounts added to the sale.
6. If this is a pre-paid customer order then tick the pre-paid customer order box. After you have completed the sale you will then be asked for the customer details. The order details will then be stored in E4E's customer orders. NOTE: E4E will automatically add to the memo box when saving the sales data a notification that this is pre-paid customer order.
7. Any change necessary will be displayed as a negative balance due. NOTE: E4E always assumes change will be given as cash.
8. Click complete sale to finalise the sale OR click cancel to go back to the sales screen and add more products / cancel the sale completely.
9. After you have completed a sale the change that was due from that sale will be shown in the 'Previous Sale Change' box.

NOTE: The order in which the deals and sale discounts are applied are: Any deals (see the discounts and deals section of this manual for more details) and then sale monetary discount followed by the sale percentage discount. Adding the monetary discount before the % discount works in the retailers favour.

Keyboard shortcut's when taking payment

ALT + 1	Enter payment method 1 amount
ALT + 2	Enter payment method 2 amount
ALT + 3	Enter payment method 3 amount
ALT + 4	Enter payment method 4 amount
ALT + 5	Enter payment method 5 amount
ALT + m	Enter a monetary discount
ALT + n	Enter a reason for monetary discount **NOTE:** When in the monetary discount reason box: • The up and down arrows scroll through the options • ALT + down arrow shows the full list of reasons • You can also keep pressing a letter on the keyboard to scroll through all the discount reasons that start with that letter
ALT + p	Enter a percentage discount
ALT + r	Enter a reason for percentage discount **NOTE:** When in the percentage discount reason box: • The up and down arrows scroll through the options • ALT + down arrow shows the full list of reasons • You can also keep pressing a letter on the keyboard to scroll through all the discount reasons that start with that letter
ALT + e	Enter a sale memo
ALT + s	Complete Sale
ALT + c	Cancel

Changing the sales assistant name

If you change sales assistant in the midst of using E4E to make sales you can change the sales assistant name by clicking the change assistant button on sales screen. You will be asked for a new sales assistant first name. **NOTE:** If the 'force user to give sales assistant name' option is ticked in the EPOS setting then you will have to give a sales assistant name.

Changing the till number

You can change the till number on the sales screen by clicking the change till number button. You will be asked for your new till number. If sales have been made on the new till number already today, E4E will automatically pick up the next transaction number and till total.

Warning: Each till should have a unique till number or you will get duplication of sale transaction numbers in the sales data

Locking the sales screen

If you need to leave the till unattended for any reason you can lock the till by clicking the lock screen button on the sales screen. You will then be asked for a password to unlock the screen. You can choose your screen unlock password on the EPOS settings screen. If you forget the password you can always enter 'EPOS4excel' when asked for a password and this will override any user chosen password unlocking the screen.

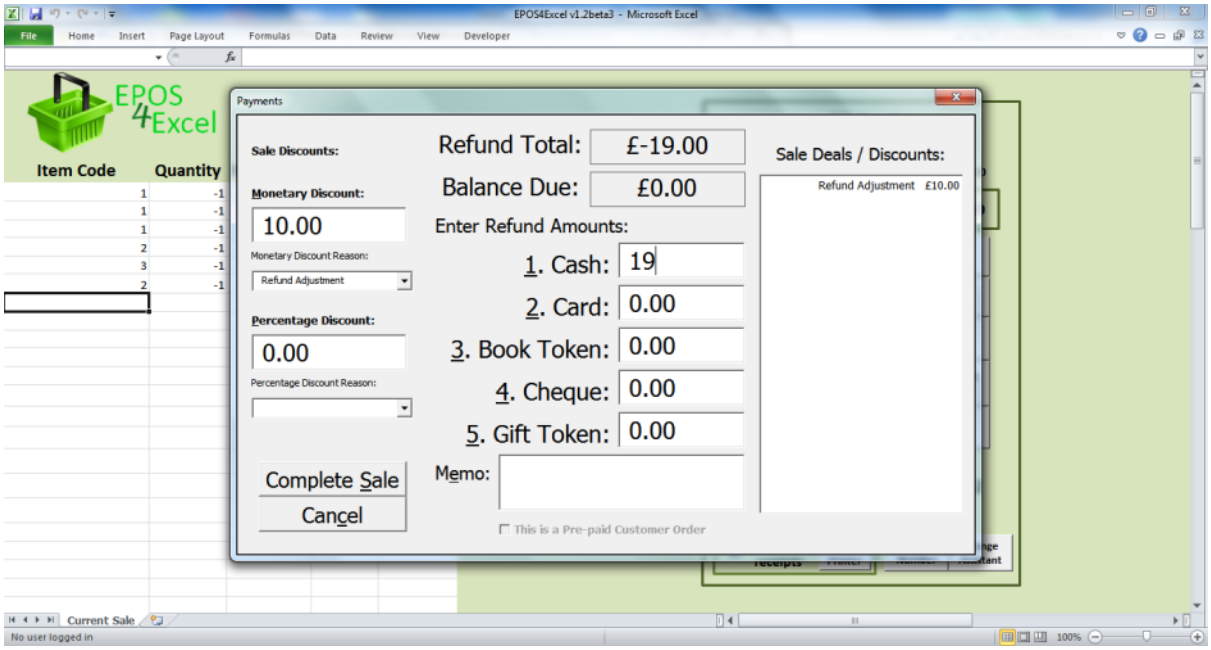
If you have E4E security enabled you can also enter a sales, supervisor or administrator password to unlock the screen as well.

NOTE: Passwords are case sensitive!

Refunding Items

In E4E you cannot refund items at the same time as selling other items (ie. an exchange). If a customer wants to return items and buy different items at the same time, first complete the refund of the items and then sell the other items separately.

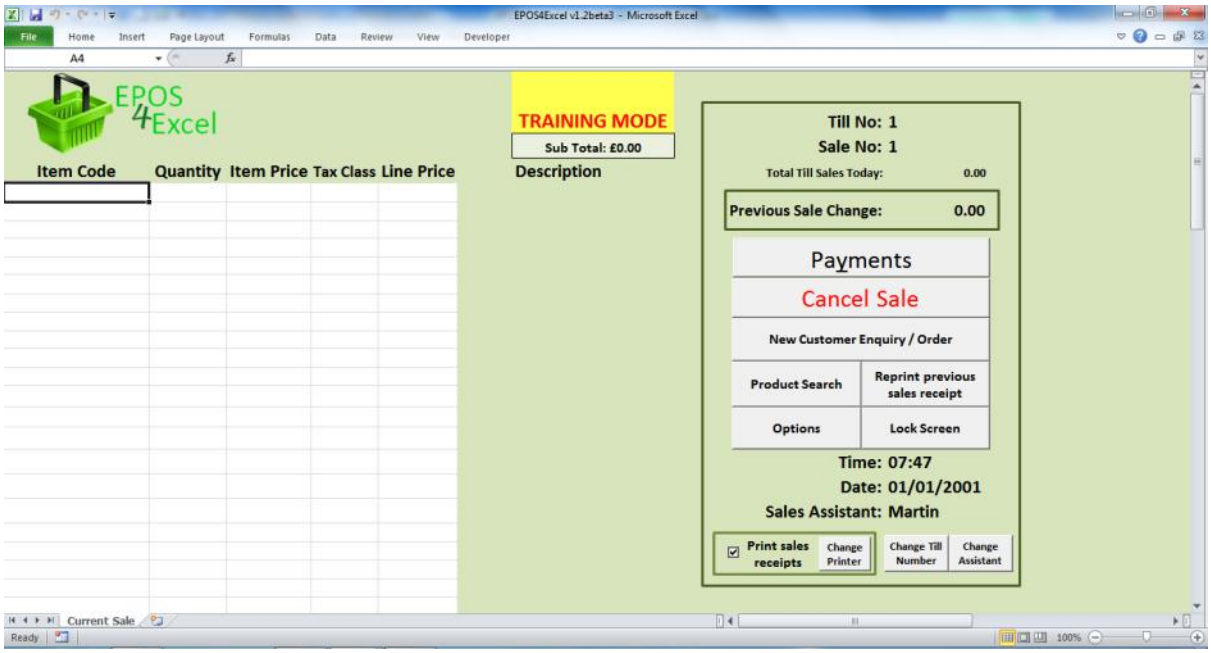
1. Scan the barcode of the first product to be refunded into the first free cell in the 'Item Code' column. The price and will automatically be looked up.
2. Change the quantity to -1
3. Check the item price is right, if not change the item price.
4. Repeat for any other items to be refunded.
5. Click the payments button.
6. Add any necessary percentage discount / monetary discount (this must be entered as a positive amount) and give reasons from the drop down menu where applicable.
7. Enter the amount of refund next to the relevant payment type.
8. You can use the memo box for recording any other details necessary regarding the refund eg. the reason for the refund such as 'misprinted book' / the receipt number of the original sale etc. (**NOTE:** If you choose the option of forcing the user to give reasons for a refund in the EPOS Settings then you will have to include a reason for the refund in the memo box)
9. Click the complete sale button to complete the refund.



Sales training mode

E4E has a built in sales training mode. On the main options screen click the sales training mode button to enter the training mode. When you are in sales training mode you can learn how to use the sales screen functions with no sales data, customer order data, product details or stock level changes being saved. This enables new staff to get used to the sales functions without anything they do affecting any of your data.

Training mode is displayed clearly at the top of the sales screen to show you are in the sales training mode. You will exit the sales training mode when you click the options button on the sales screen.



Returning to the EPOS 4 Excel options screen

On the sales screen click the 'options' button.

Frequently Asked Questions:

How do I find out the total cost of the sale so far in the middle of entering items to be sold?

The sales screen includes a sub total but this amount is the sale cost before any sale discounts or deals are added. To find out the total cost including sale discounts / sale deals, click on the payments button. Then the payments window will pop up and tell you the cost of the items in the sale including any deals / discounts. To return to the sale and add more items click the cancel button.

What if the customer decides they no longer want an item I've already scanned?

Change the item quantity to the number '0' and it will be deleted from the sale.

I've accidently left a blank row in the list of products for the sale, what do I do?

Do not worry, you **do not** need to cancel the sale and start again. Carry on as normal and when you come to complete the sale E4E will automatically remove any blank rows.

Can I sell an item which is not on the product list?

If the details of the item you wish to sell are not currently held on the product list then when you add the item's SKU / item code to the sale you will be requested to enter the item details to add it to the product list. Choose cancel if you do not wish to sell the item, otherwise enter the requested item details.

I want to close the till down for a couple of hours. Do I need to leave EPOS 4 Excel running?

You can simply choose to lock the sales screen and enter the password to unlock it when you return. However you do not need to leave E4E running! Exit the sales screen by clicking on the options button. Click the Exit button on the options screen and the till number will be saved. Close down the computer. Come back later and open E4E. Go to the sales screen. It will recognise that E4E has already been used for sales, so it won't prompt you for a till number but it will ask you for the sales assistant name. You can continue making sales where you left off.

The computer has crashed and I haven't saved the file. Have I lost all the data of the sales I have made?

No! Every time you complete a sale button the E4E file containing the sales data is automatically saved. The most you will have lost is the data you were entering for the current sale.

How do I deal with an item that is to be given away free?

It is important that any free items are still scanned in as a sale so that stock levels are kept accurate to what is actually in stock. There are two different possible situations when giving away free items:

1. In the midst of paid items there is a free item. In this case still enter the free product's item code in as normal. Change the item price to zero. Continue and complete the sale as normal.
2. All items in the sale are free. In this case you can enter the item codes of all the free products as normal and change all the item prices to zero. However this could become cumbersome. Alternatively you could enter all the item codes, click the payments button and enter a sale monetary discount equal to the sale total.

NOTE: If an item in the sale has a zero price then when you click payments you will be warned of the existence of a zero priced item in the sale and asked if you are sure you want to go ahead with taking payment. If you wish to change the price of the zero priced item, click cancel and alter the price before clicking take payment again.

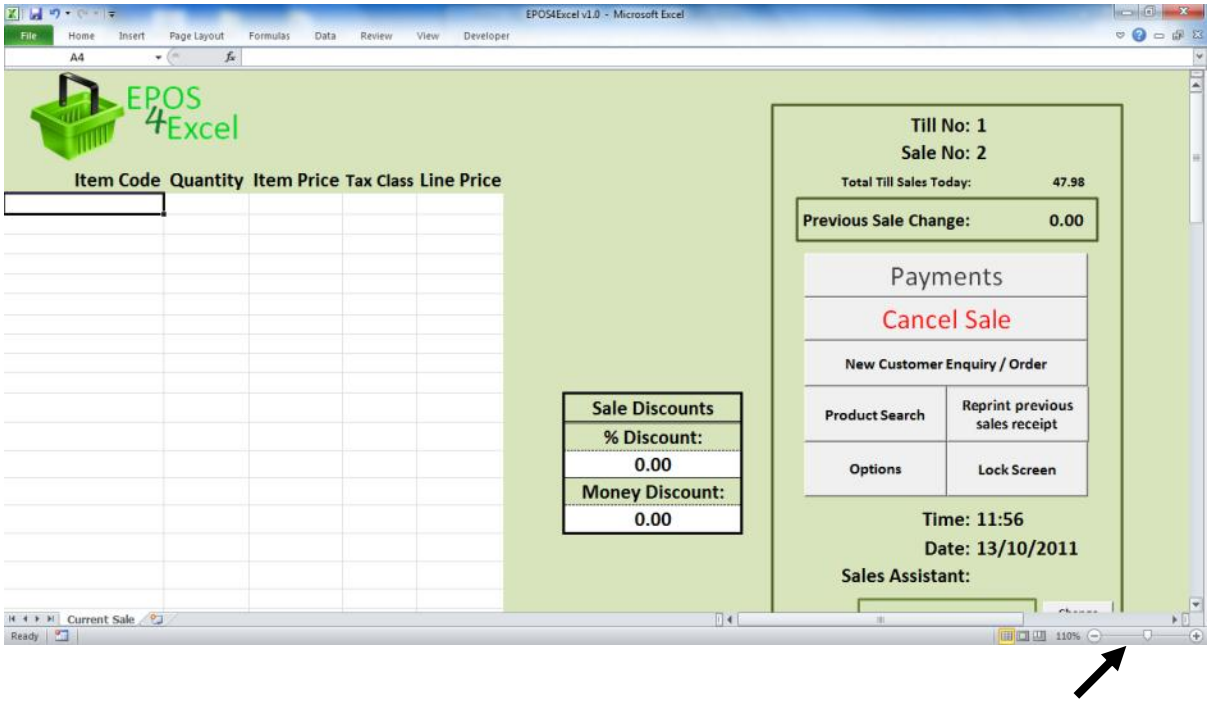
The printer ran out of paper or jammed in the middle of printing a receipt. How do I reprint the last receipt?

On the sales screen simply click the reprint previous sales receipt button. This button will only be enabled if you have the print sales receipts box ticked.

Something disastrous seems to have happened and I cannot continue to use this copy of E4E for making sales. What do I do?

You can open a new copy of the E4E worksheet. Make sure the data file settings in the new E4E file are set up the same as the E4E file you can no longer use. Click the sales button and make sure you enter the same till number as before. E4E should then automatically pick up the last sale number and total amount sold on the till today from the sales data file. You can begin to make sales again.

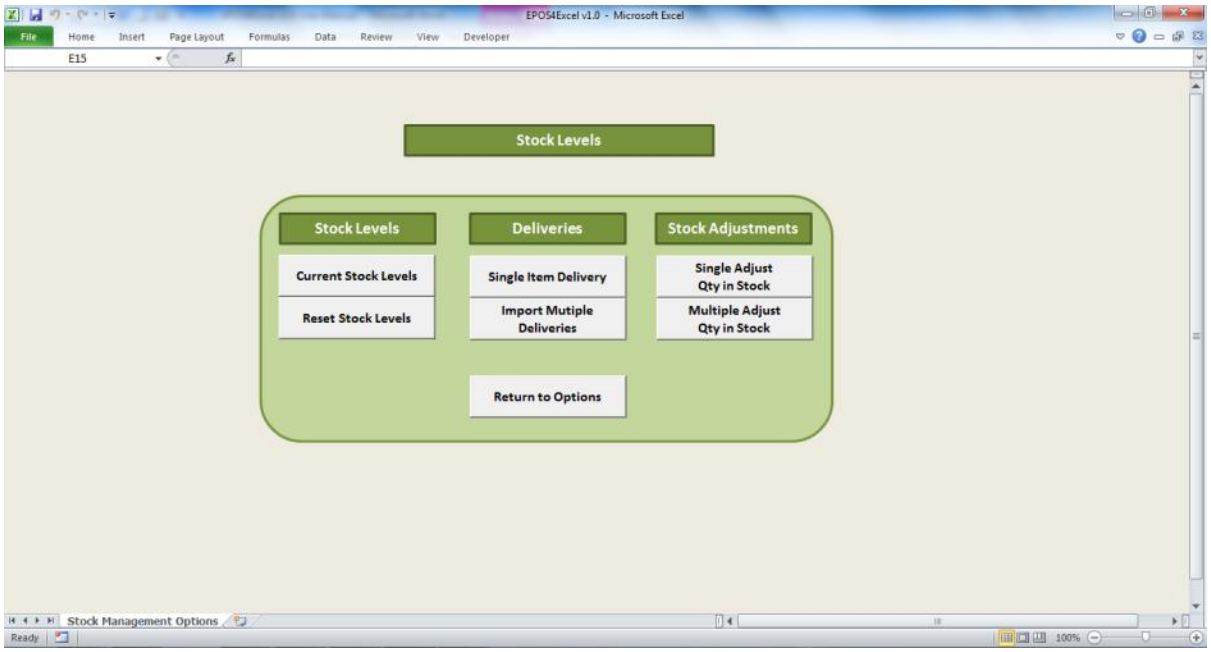
On the sales screen the box containing the information / buttons (right hand side) is too big to fit on the screen.



For some computers with a smaller resolution on the monitor this may be a problem. The way around it is to adjust the 'zoom' of the Excel window to less than 100% using the slider or + / - buttons at the bottom of the window.

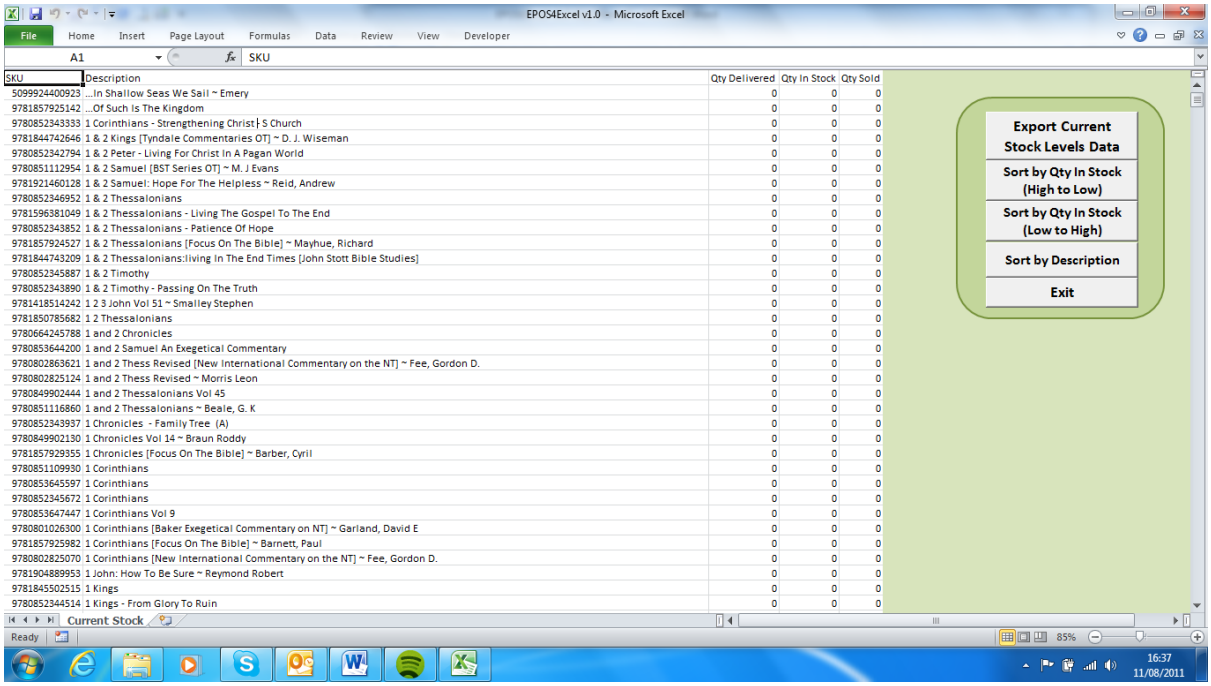
5. Stock Management Functions

EPOS 4 Excel includes basic stock management features, which means you can track stock levels of items. For accurate stock levels you must import your initial stock levels into E4E before you start selling. See the section of this manual on setting up E4E for use for further details about importing initial stock levels. To access the stock management functions click the stock levels button on the main options screen.



Showing the current stock levels of all products

Click the current stock levels button on the stock levels screen. E4E will show a screen containing a list of all products and their stock levels.



You can chose to sort the list by quantity in stock (high to low OR low to high) and by description (A to Z).

You can also choose to export the current stock levels data as laid out on the screen to an excel workbook.

NOTE: An alternative way of showing the current stock levels is on the product screen clicking the show all products button. This will bring up a list of all products stored in E4E and their stock levels. However there is no export function on this screen.

Resetting the stock levels

You can set the stock levels for all products back to zero by clicking the reset stock levels button on the stock levels screen. This sets quantity delivered, quantity sold and quantity in hand for all products to zero.

Warning: You will not be able to retrieve this information if you reset the stock level to zero, so it is advisable to back up your data first.

Adding a new delivery of a single product

You can record a new delivery of a single product by clicking the single item delivery button on the stock levels screen.

1. Enter the item code that you wish to record a new delivery for.
2. Enter how many or how much (eg. how many kilograms) of that item has been delivered.
3. The stock levels will now be updated to take into account the delivery.

Importing multiple deliveries in one go / Importing initial stock levels

If you have many items delivered at the same you do not have manually enter the delivery details of each single item. Create an Excel workbook (.XLS or .XLSX) with the following columns (no column headings):

Column A: SKU/ item code
Column B: quantity of the item delivered

Click the import multiple deliveries button on the stock levels screen and choose the file you have created with the delivery details. E4E will now import these multiple deliveries and update the stock levels accordingly.

You can use the import multiple deliveries process for setting up the initial stock levels of a shop:

1. Make sure all products in the shop have been added to product list
2. Reset the stock levels to zero
3. Create an Excel workbook containing the item code and initial stock level for that item in the shop (as above).
4. Then using this workbook 'deliver' all the items in your shop as above. Your initial stock levels for your shop will have been set up.

NOTE: You can only deliver products that already exist on the product list. If you are delivering a new product first you must add the product to product list before adding a delivery. See the alter / add a new product section of this manual for more details on adding new products.

NOTE: If you make a mistake with the quantity you can always add a delivery for the same item with a negative quantity to cancel out the number you previously said was delivered.

Adjusting the quantity in stock for a single item

Sometimes it may be necessary to adjust the quantity in stock of an item to keep the stock levels accurate eg. if items get stolen etc. You can do this by clicking the single adjust qty in stock button on the stock levels screen. Enter the item's code whose stock level you wish to adjust. Enter the new stock level for this item ie. how many of the item are or how much of the item is (eg. how many kilograms) currently held in stock. This will become the new stock level for this item.

Adjusting the quantity in stock for multiple items

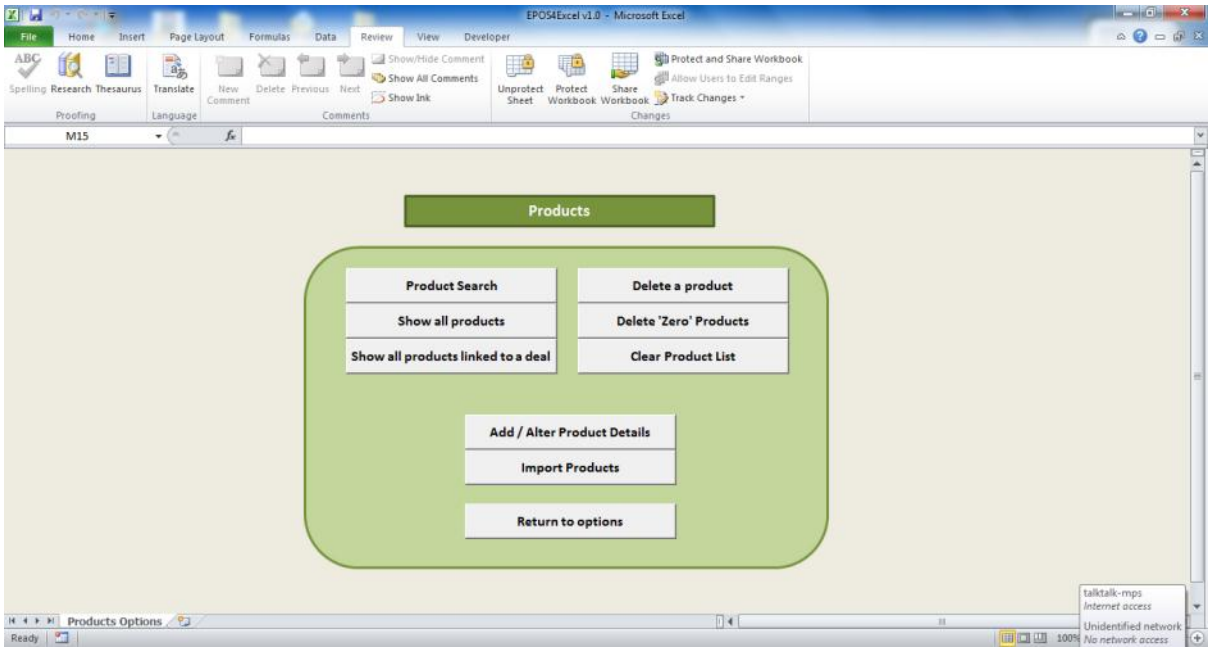
You can adjust the quantity in stock of multiple items by creating an Excel workbook (.XLS or .XLSX) with the following columns (no column headings):

Column A: SKU/ item code
Column B: the new stock level for this item ie. how many of the item are or how much of the item is (eg. how many kilograms) currently held in stock

Click the multiple adjust qty in stock button on the stock levels screen and choose the file you have created. E4E will now update the quantity in stock levels accordingly.

Using this process you can do a stock take for your shop and update the stock levels for all items in your shop thereby keeping them accurate.

6. Products



Product descriptions

In E4E you have three description fields for your products:

1. **Description** – This is the main description of your product and should be used to name your product. What you put in this field will appear on your receipts and will be seen by customers.
2. **Description 2 and Description 3** – This is a sub-description for your products. What you put in this field will not be seen by customers and will not appear on your receipts.

You could use the description 2 and description 3 fields to store various pieces of information:

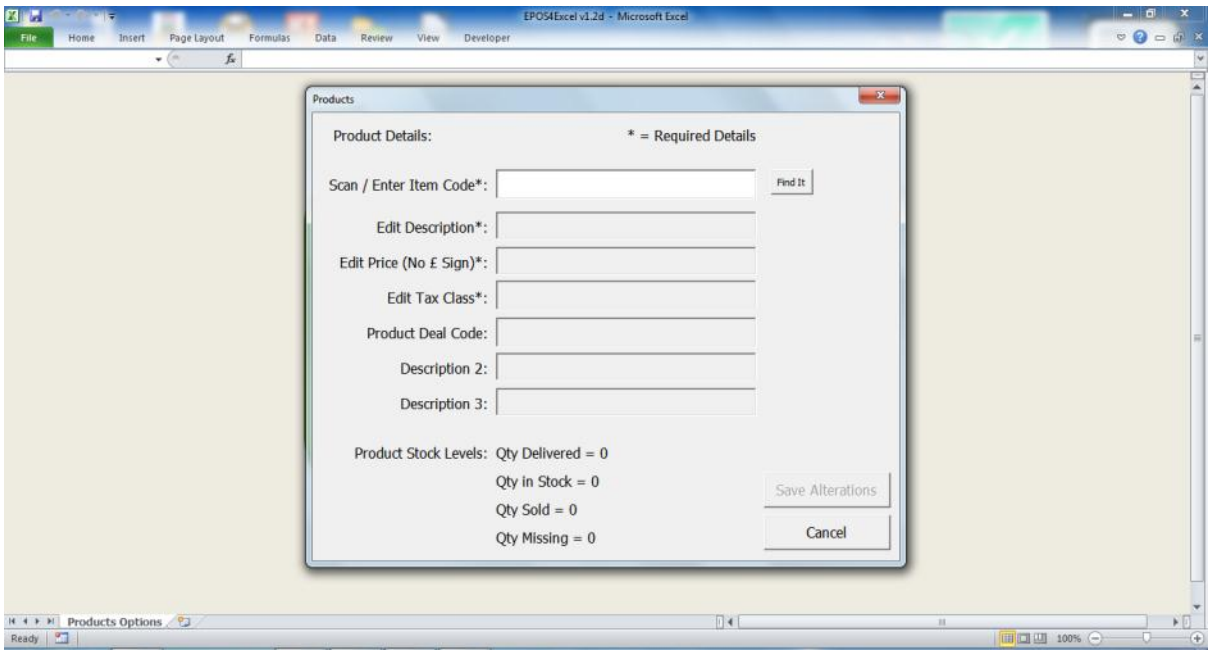
- Supplier name
- Location of the item in the shop ie. split your shop up into areas and label the locations, the location code could then identify where the stock is held
- If you are selling books you could use them to store publisher or author details
- The format of the product eg. DVD, Blueray, Hardback, Paperback
- Organise your products into different departments eg. fruit, stationary, magazines, clothing etc.

Alternatively you can leave the description 2 and description 3 fields blank.

On the EPOS settings screen you have the ability to change the label of descriptions 2 and 3 to something more intuitive for your staff eg. set the description 2 label to 'supplier' and when you search for a product rather than E4E asking for search terms for description 2, it will ask for search terms for 'supplier' instead.

NOTE: Changes to the description 2 and 3 labels only affect the specific till they are made on. If you are running E4E on multiple tills over a network it is therefore a good idea to make the customisation changes to the description 2 and 3 labels before you place copies of the E4E workbook on all your tills.

Manually adding or altering product details



1. Click the alter / add product details button on the products screen
2. In the pop up box enter the item code of item whose details you wish to add / alter and then press enter or click on the find it button
3. If the item is found on the E4E product list then the item details will be shown for you to edit.
4. If the item is not found on the E4E product list you will told this is a new item. You then must enter a description, tax class and item price. Deal code, description 2 and description 3 are optional.
5. Click save to save your edits or cancel to discard them.

NOTE: If the item is already on the product list then the alter / add product pop up box will also show you the stock levels for the item. Here Qty Missing = Qty Delivered – Qty in Stock – Qty Sold

NOTE: If the item is already on the product list, altering the item code and saving alterations will create a new product with the same product details as the details of original product but different item code / sku. The original item will be kept on the product list and a new item with the changed item code will be added to the product list. To remove the original product you will have to delete this single manually (see below).

NOTE: It may be necessary during a sales session to alter the price of a product eg. if the price of the product needs to be reduced / increased due to mispricing etc. This can be done during a sale by simply altering the item price every time the product is scanned on the sales. However you can also make the price change more permanent by altering the price list using the above method.

NOTE: If you wish to edit the details of a product whose item code you don't know then see the searching for products section below for details about how to find a product by item description.

Importing products

The quickest way to create a product list is to create an excel workbook (.XLS or .XLSX) to import into E4E. The Excel workbook should have the following columns:

Column A:	SKU / Item Code / Item Barcode
Column B:	Item Description
Column C:	Gross Price (including VAT)
Column D:	Item Tax Class
Column E:	Deal code (You may leave this column blank)
Column F:	Product Description 2 (You may leave this column blank)
Column G:	Product Description 3 (You may leave this column blank)

NOTE: Columns A-D are essential, all other columns you may leave blank. Row 1 of the worksheet is left for column headings. **If you place item details in row 1 then this item's details will not be imported.**

The **SKU / Item Code** should be a number if you are using a barcode scanner. If you decide to enter item codes manually you can use mixture of numbers and letters for your item codes. This item code cannot be 0 (zero)

The **Gross price** should be the price per individual item (eg. price per book) or unit price (eg. price per kilogram, which would allow you to sell loose items in varying proportions of a kilogram). On the EPOS setting screen you can choose to only allow the selling of whole number quantities of products (ie. you would then not be able to sell varying quantities of loose items)

The **item tax class** is a code which represents the items % VAT rate eg. T20 representing a 20% VAT rate. These codes and the corresponding % VAT rates will need to the stored E4E's tax settings. See the 'Editing Tax Settings' section of this manual for more details.

The **deal code** is a code which indicates the product is linked to a deal which E4E will automatically add to the sale if specific items are in the sale basket. For more details see the 'deals' section of this manual.

Product Description 2 / Product Description 3 are two extra customisable fields for describing the item. See the 'products' section of this manual for more details.

You can then import the product details into E4E by clicking the import products button on the products screen. Choose the Excel workbook that contains the product data you wish to import. During the import the progress will be shown at the bottom of the products screen.

During a products import if the imported item code is already found on the product list then E4E will use the imported details to update the item description, item tax class, item price, deal code, description 2 and description 3 of the already stored item. (If there is no deal code for an item any existing deal code for that product will be kept.) New products will be added to the already existing items on the product list.

E4E has been successfully tested with over 8,000 products on the product list. Theoretically E4E could hold over 1 million products but this would probably run too slowly!!

Deleting a product from the product list

To delete a product from the product on the products screen click the delete a product button. Enter the item code of the product you wish to delete. The product will be deleted from the product list.

Warning: If you delete a product then the product data and stock levels will be wiped and you will not be able to retrieve this data, so it is advisable to back up your data first.

Clearing the product list

Sometimes it may be necessary to clear the product list and start again with a blank one eg. If you take temporary shops to conferences you may take different products to different conferences and so at the start of each conference it would be good to start off with a blank product list.

To clear the product list click the clear product list on the products screen. You will be asked if you are sure if you want to do this before the product list is cleared.

Warning: If you clear the product list then the product data and stock levels will be wiped and you will not be able to retrieve this data, so it is advisable to backup your data first.

Deleting unused products from the product list

On the products screen clicking the delete zero products button allows you to delete all products from the product list that have zero price AND zero qty delivered, zero qty in stock, zero qty sold ie. products that have not been used.

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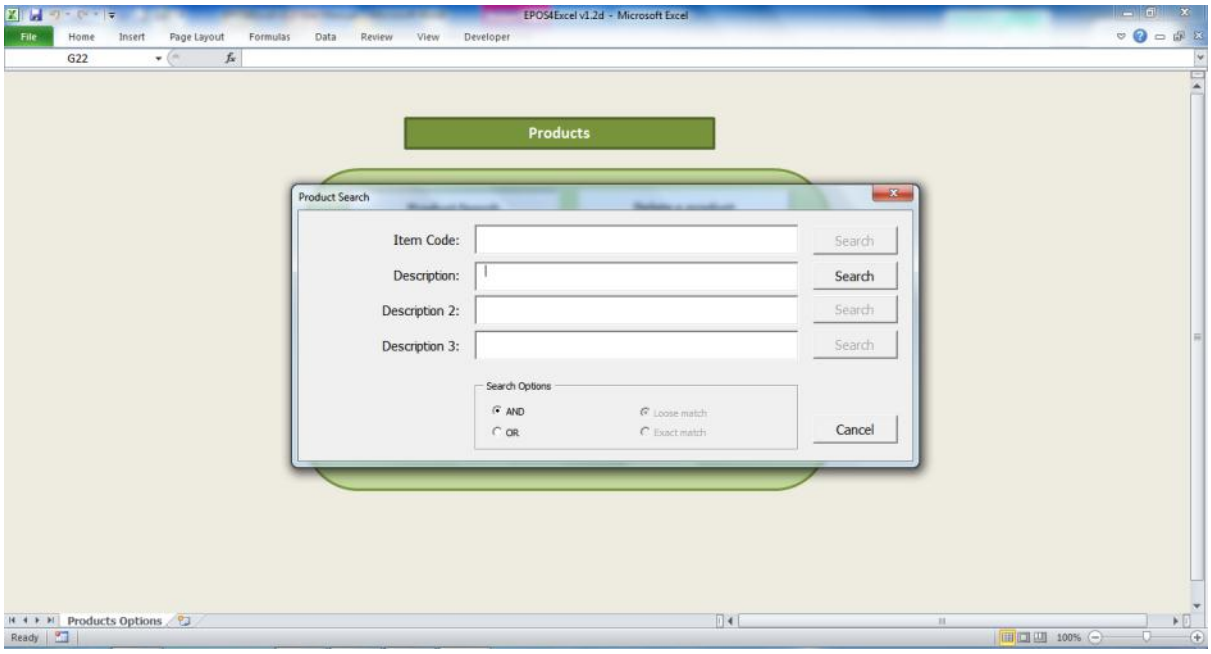
Searching for products



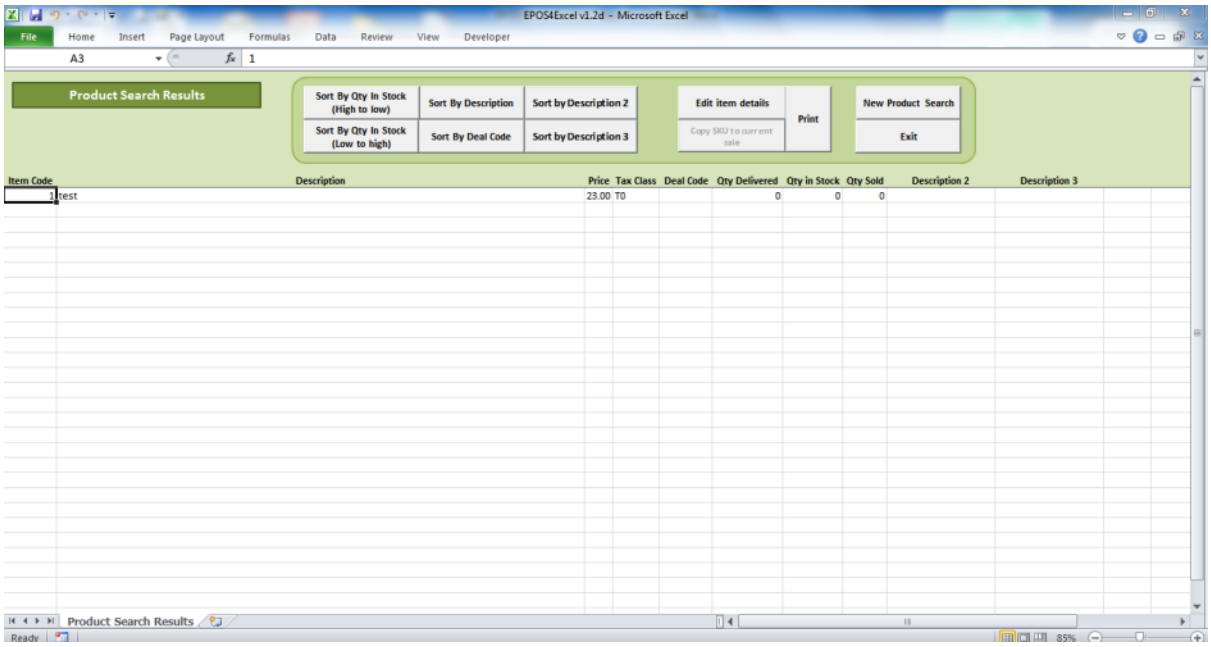
To search for products click the product search button on the products screen. You can search by item code, description, description 2 and description 3. Enter your search terms in the appropriate box and click the search button.

The search options are as follows:

Item Code search options	**Exact Match** = searches for the item code which exactly matches the search term eg. Searching for 1234 will find the single item with a code of 1234 but it would not find an item with a code of 61234. **Loose match** = searches for those item codes which include the search term but not necessarily exactly eg. Searching item code for 1234 will find the single item with a code of 1234 and it will also find an item with a code of 61234. Why might the loose match be useful? If you can only partially read the barcode of a product because it has been damaged, then you can search for the partial section of the barcode which you can read to find the product details. Another possible use could be: If the item codes of all products from a single supplier begin with, say, the same 7 digits (eg. 9781365) then a loose match search for these 7 digits will find all items from that single supplier. **NOTE: The AND / OR search option is not available when searching for item codes.**

Description, Description 2 and Description 3 search options	**AND / OR** = when searching in item descriptions you can choose to find all results that contain eg. 'test' AND 'bed' or all results that contain 'test' OR 'bed'. NOTE: Descriptions are always searched based on a loose match. In other words, searching for those descriptions which include ALL the search terms but not necessarily exactly eg. searching description for 'test bed' will find item descriptions with the words 'test' AND / OR 'bed', however it will also find item descriptions containing the words like 'testing' and 'bedroom'.

After clicking search a list of the products relating to your search terms will be shown.



You can choose to sort the results list by quantity in stock, description, description 2, description 3 or by deal code. You can also edit an item's details by clicking on the item code of the item whose details you wish to edit. Then click on the edit item details button. A window will pop up with the item details for you to edit. If you cannot see the product you were looking for you can always search again by clicking the new product search button.

Printing product search results

On the product search results screen you have the option of sending the results to a printer. This only works with an ordinary printer attached to the computer, sending the results to a receipt printer will not work.

1. Click print button on the product search results screen
2. A window will pop up asking you which columns you wish to print. Tick the relevant columns and the click ok
3. A window will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the search results to.
4. If you wish to change printer settings you can click the set up button
5. Click ok to print or cancel if you no longer wish to print.

NOTE: Any changes you make to the active printer when printing a product search results will be temporary.

Showing all products

If you click on the show all products button on the products screen you will be shown a list of all products stored in E4E.

Showing all products linked to a deal

If you click on the show all products linked to a deal button on the products screen you will be show a list of all products linked to a deal.

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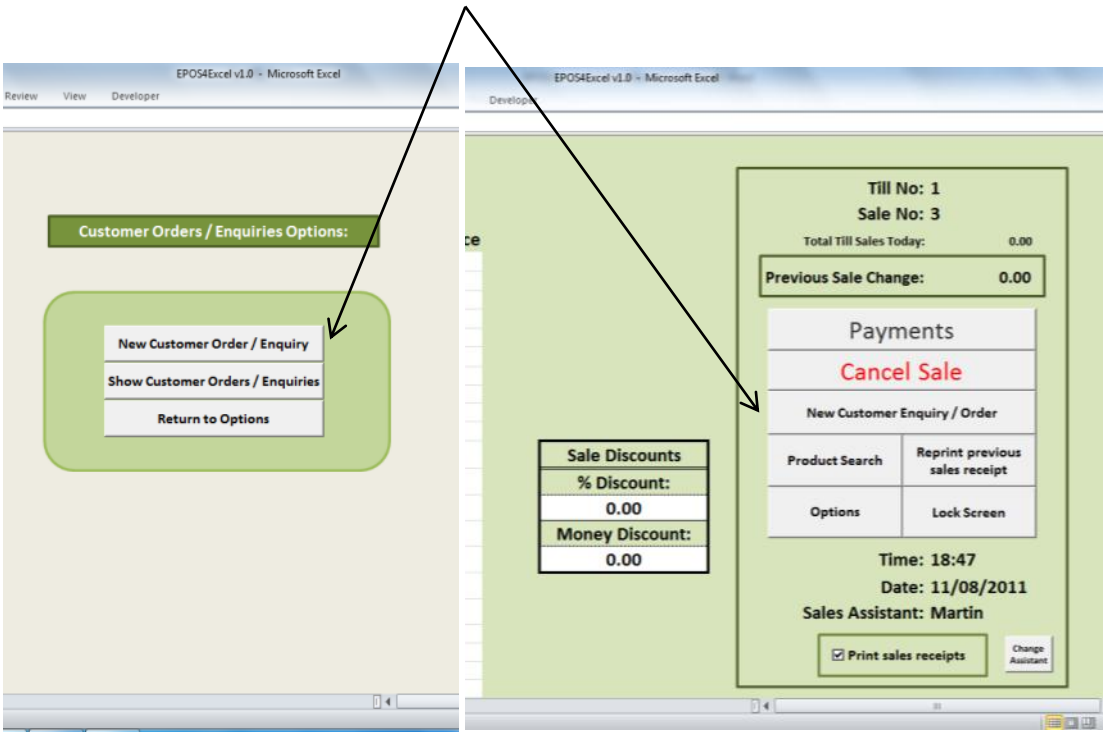
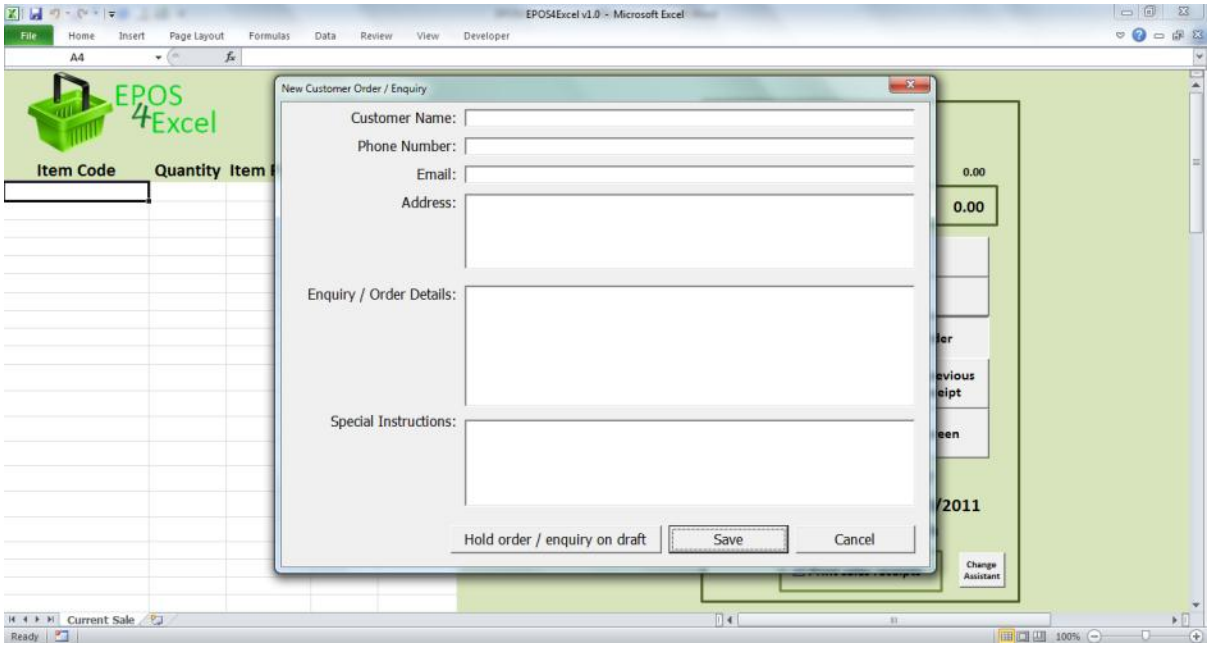
7. Customer orders and enquiries

E4E includes the ability to store customer orders / enquiries which can then be processed later. The file containing the orders is found in the E4E data storage folder (see the section on setting up E4E and Appendix D in this user manual for more details). If you are working remotely, then at the end of the day this customer orders file could be emailed to your companies head office for processing.

Entering details of a customer order / enquiry

1. To enter details of new customer order / enquiry click on the new customer order / enquiry button which can be found on either the sales screen or the customer orders / enquiries options screen.
2. A box will pop up asking for details about the order / enquiry. Enter as much information as is possible.
3. To save the details of the enquiry click the save button.
4. You can also click the Hold order / enquiry on draft button to keep the enquiry details without saving it. Clicking this button will close the pop up box but still keep the order / enquiry details in the pop up box. The next time you click the new customer order / enquiry button the pop up box will appear containing the details you have placed on draft. You can then continue editing it before saving. **NOTE:** Until you press the save button the order / enquiry details will not be saved to the order / enquiry notebook.
5. Alternatively you can click the cancel button to exit without saving and the order details will be cleared from the pop up box.

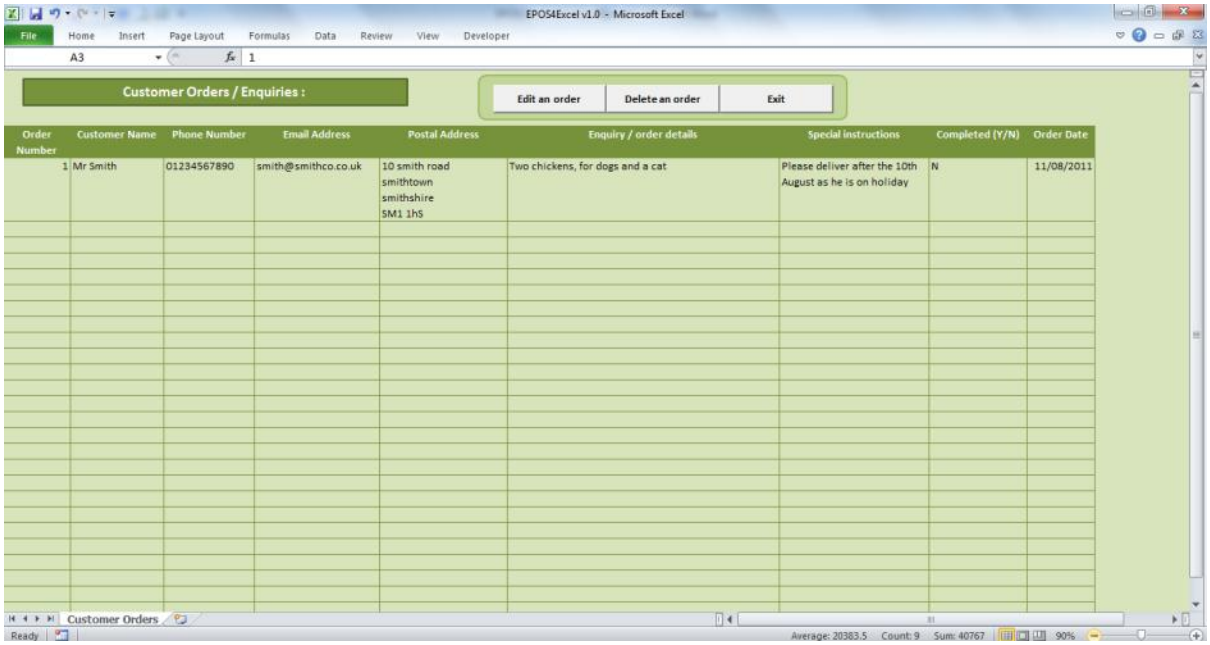




Viewing or editing customer orders / enquiries

On the customer orders / enquiries options screen click the show customer orders / enquiries button. This will show all customer orders that have been made for the current day. If you are running E4E on a network it will show you and enable you edit all customer orders made on every till for the current day.

E4E starts a new customer order file each day and you will only be able to view the customer orders from the current day. To access the customer orders from previous days open the E4E data storage folder and open the relevant file: ordersDDMMYYYY.xlsx, where DD = Day, MM = Month, YYYY = Year.



Deleting a customer order

1. On the View / Edit customer order screen make a note of the order number that you wish to delete.
2. Click the delete an order button.
3. Enter the number of the order you wish to delete.
4. The customer order will now be deleted.

Editing a customer order

1. On the View / Edit customer order screen make a note of the order number that you wish to edit.
2. Click the edit an order button and enter the number of the order you wish to edit
3. Make any necessary changes and click save.
4. The order is now edited

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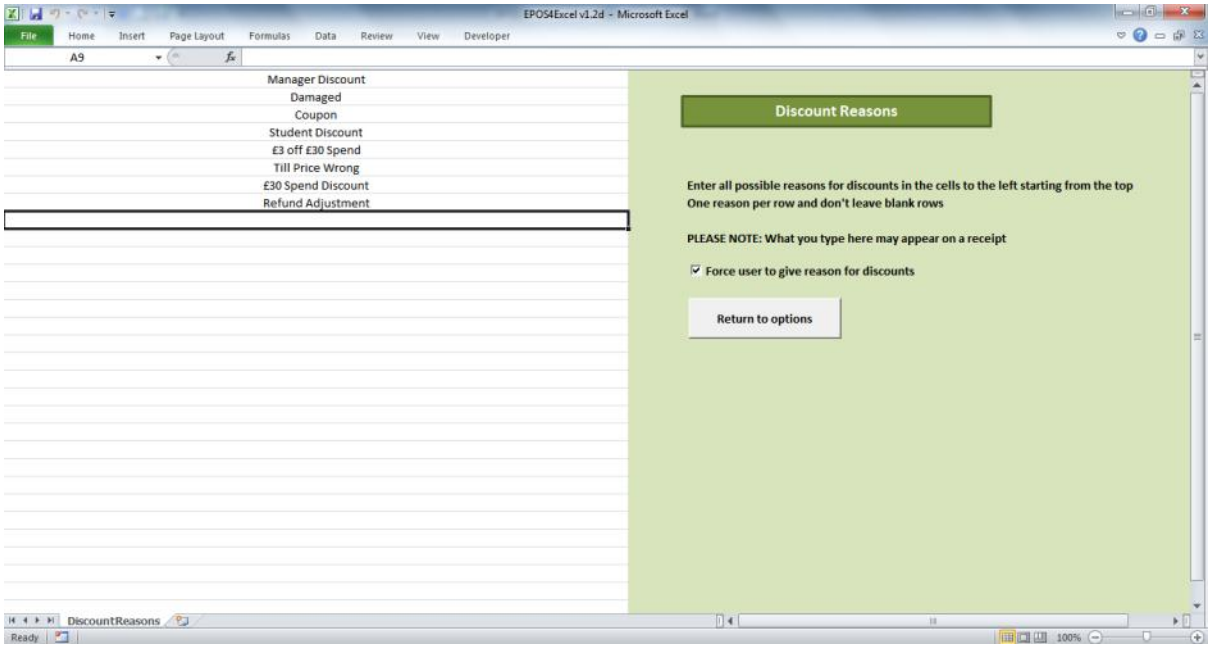
8. Discounts and deals

In E4E we distinguish between deals and discounts:

- **Discounts** – are added by the sales assistant during a sale. They can be discounts on individual items (percentage off an item price / item price change) or discounts off the whole sale (percentage discount off the whole sale / monetary discount off the whole sale)
- **Deals** – are sales promotions that are added automatically by E4E when a specific group of items appear in the sale basket (ie. buy X for Y / by X for £Y) and they only affect the specific items in the deal

Setting up discount reasons



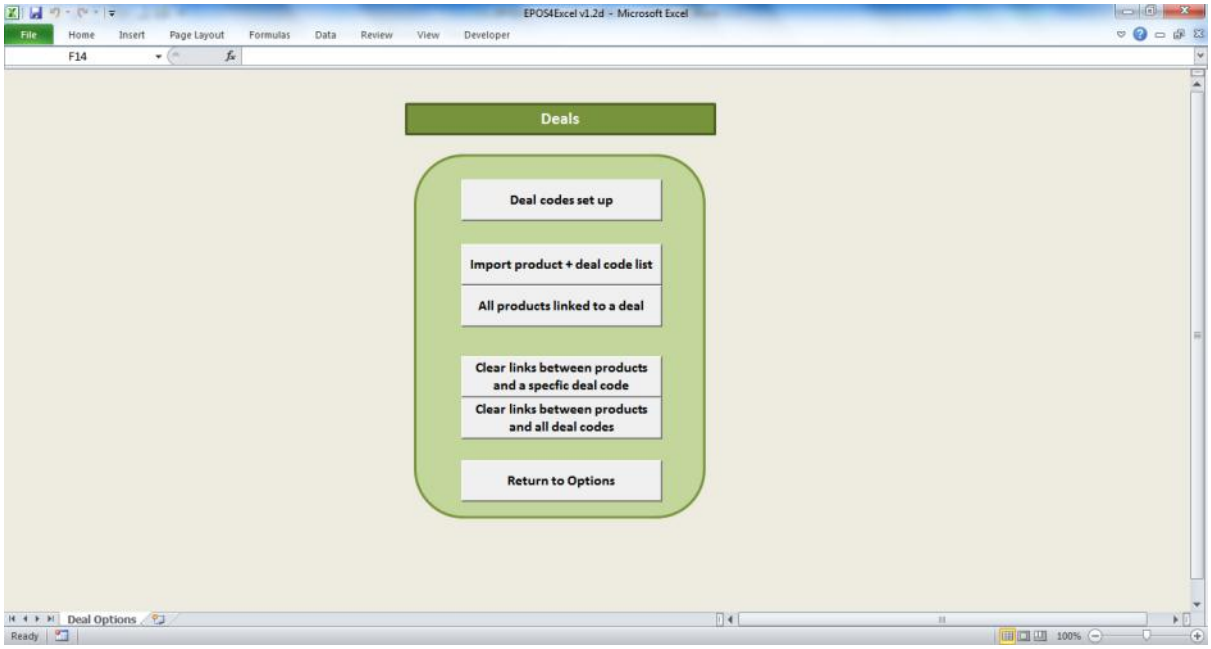
In the EPOS settings you can define the possible reasons that a user can give for discounts when changing an item's price or adding a discount to the whole sale.

1. On the EPOS setting screen click the discount reasons button
2. In the left hand column specify all the possible reasons for discounts off item prices or off the sale total. Keep these as short as possible and be aware that what you type here might appear on a receipt (in the case of discounts off the whole sale).
3. Tick the 'force user to give reason for discounts' box if you would like the sales assistant to always give a reason for a discount

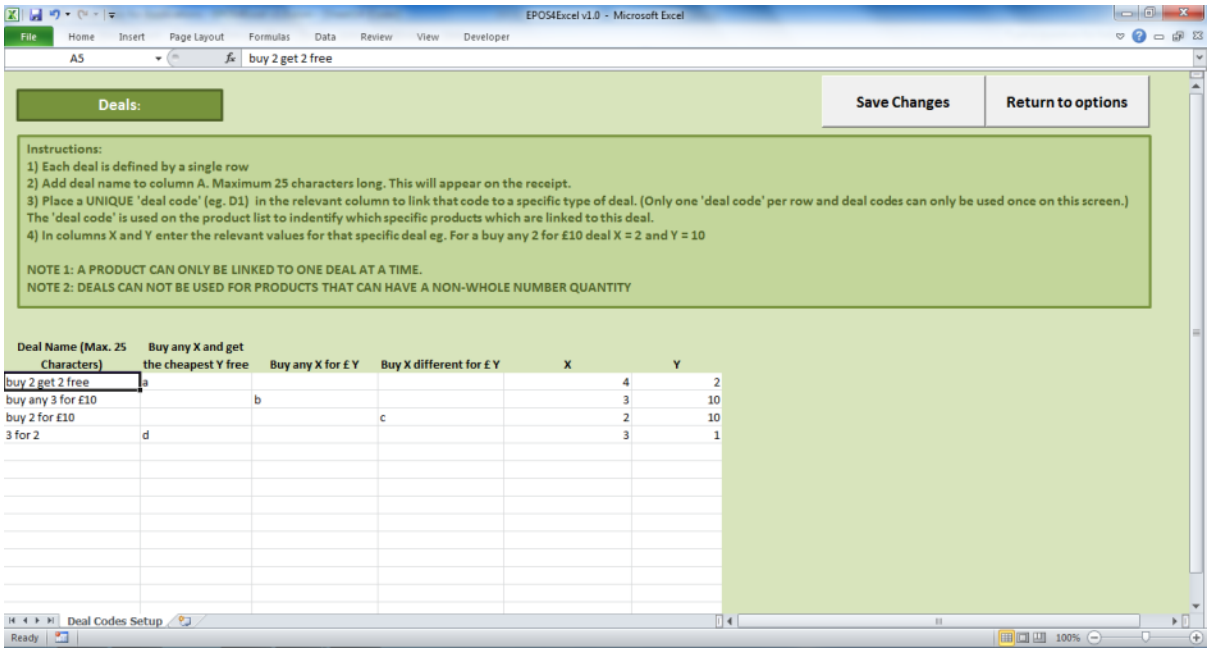
NOTE: Changes to the discount reasons only affect the specific till they are made on. If you are running E4E on multiple tills over a network it is therefore a good idea to make the customisation changes to the discount reasons before you place copies of the E4E workbook on all your tills.

For more information on adding discounts to a sale see the making sales with EPOS 4 Excel section of this manual.

Setting up deals



To set up deals click on the deal codes set up button on the deals screen and you will be presented with the following screen.



E4E allows the defining of three different types of deal:

- Buy any X products from a selection and get the cheapest Y free
- Buy any X products from a selection and get them for £Y
- Buy X different products from a selection and get them for £Y

The way you define the selection of products the deal applies to is by using an alpha-numeric deal code (eg. a, a1, sd3 etc.)

1. In the first column of the first free row enter a deal name (maximum 25 characters, if you type more than 25 characters E4E will reduce it to 25 characters). **This deal name will appear on the receipt when the deal is used.**
2. In the relevant column enter a deal code to represent the specific deal type eg. enter 'a1' in the 'Buy any X and get the cheapest Y free' to represent an instance of this deal type.
3. In columns X and Y enter the numeric values for the specific instance of this deal eg. for 'buy any 3 and get the cheapest 1 free' enter 3 in column X and 1 in column Y.

The deal code is now set up and you now just need to link the products you want the deal to apply to with this deal code (see below). To save the changes you have made click the save changes button. Your changes will not be kept if you do not save the changes.

Important things to note about deals are:

- Only one deal code can be entered per row on the deal codes set up screen.
- A product can only be linked to one deal code at a time.
- Deals cannot be used with products which can be sold in non-whole number quantities
- If you are using E4E on a network, then setting up the deals on one till will set up the deals and deal codes on all tills if you save the changes.

NOTE: The order in which the discounts are applied to the sale is as follows:

1. Any deals
2. Then any monetary discount off the sale
3. Then any percentage discount off the sale.

(Adding the monetary discount before the percentage discount works in the retailers favour)

Examples of how common deals can be set up are:

Deal	Deal column to use	Values for X and Y	Notes:
Buy one from a selection of products and get one free	Buy any X and get the cheapest Y free	X = 2 Y = 1	Link the deal code to each of the products in the deal
Buy one and get one of the same product free	Buy any X and get the cheapest Y free	X = 2 Y = 1	Only link the deal code to one product
3 for 2 on a selection of products	Buy any X and get the cheapest Y free	X = 3 Y = 1	Link the deal code to each of the products in the deal. Cheapest item is given free
3 for 2 on the same product	Buy any X and get the cheapest Y free	X = 3 Y =2	Only link the deal code to one product
Buy 2 of the same product for £10	Buy any X for £Y	X = 2 Y = 10	Only link the deal code to one product
Buy any 3 from a selection of products for £15.99	Buy any X for £Y	X = 3 Y = 15.99	Link the deal code to each of the products in the deal.
Buy 3 different products from a selection for £20	Buy X different for £Y	X = 3 Y = 20	Link the deal code to each of the products in the deal.
Buy product 1 AND product 2 for £10.99	Buy X different for £Y	X = 2 Y = 10.99	Only link the deal code to products 1 and 2

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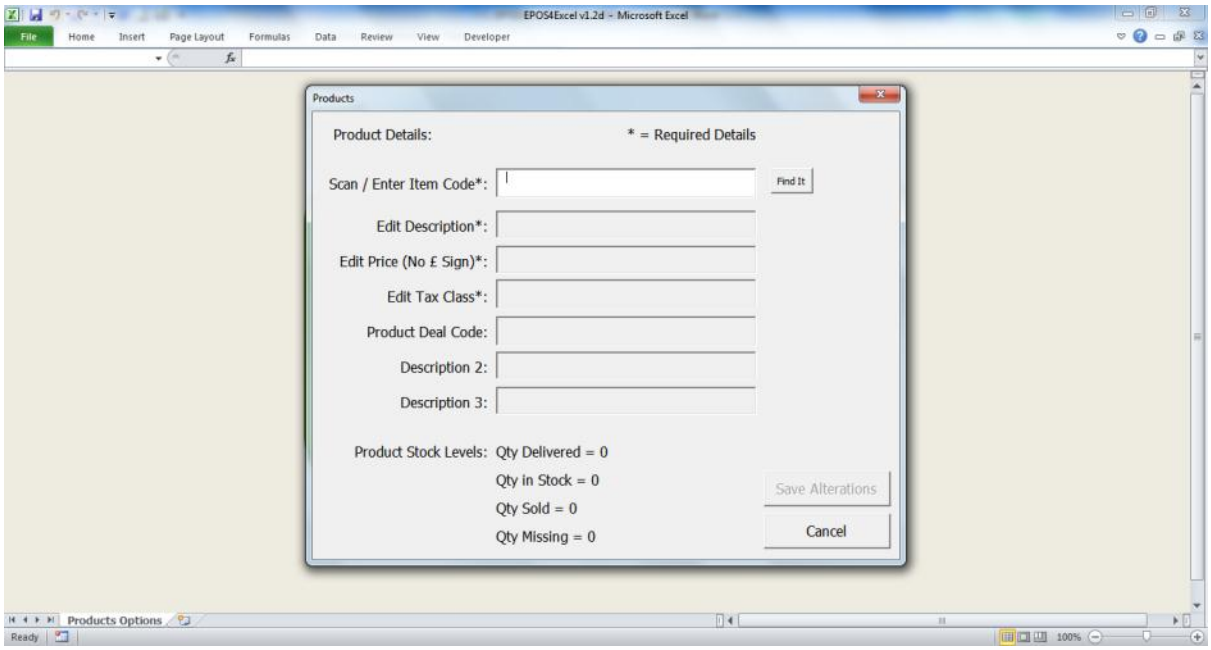
Linking a product to a deal code

After setting up the deal codes you now have to link these deal codes to the products in the individual deals. You can link individual deal codes to as many products as you like, for example:

Imagine you had a selection of 10 products and you wanted the customer to be able to buy any 2 for £10. You would link a 'buy any 2 for £10' deal code to all 10 products. Then when the customer buys any two out of the ten items linked to the deal code the deal will be applied to the sale.
OR imagine all products from one supplier were on a buy 2 for £10 you could link a buy 2 for £10 deal code to all products from that one supplier.

There are two ways to link products to deal codes, firstly individually:



1. On the products screen click the add / alter product button.
2. Search for the product you wish to link to a deal code by entering the item code and clicking the find button
3. In the product deal code box enter the deal code of the deal that you wish to link the product to eg. if the specific deal you want the product to be linked to is represented by the deal code a1 then enter a1 into the deal code box.
4. Click the save alterations button. The product is now linked to this deal code.
5. Repeat the process for any other product linked to this deal code.
6. You deal is now set up completely and when adequate numbers of the products linked to the deal code are sold the deal will be added to the sale.

You can also link many products to deal codes in one go. After setting up your deal codes you can produce an Excel workbook file containing:

Column A: Item code / SKU
Column B: The deal code you wish to link the item code in column A to

(NO column headings or blank rows!)

On the deals screen click the import product + deal code list button. Choose the Excel workbook you have just created. E4E will then link the chosen products to the respective deal codes.

Showing all products linked to a deal

Clicking the show all products linked to a deal button on the deals screen will bring a list up the list of all products which have been linked to a deal code, including their stock amounts.

Removing a link between a single product and a deal code

1. On the products screen click the add / alter product button.
2. Search for the product you wish to link to a deal code by entering the item code and clicking the find button
3. Delete the contents of the product deal code box.
4. Click the save alterations button. The link between the product the deal code is now cleared.

Removing links between all products and a specific deal code

On the deals screen click the clear links between products and a specific deal code button. You will be asked to enter the deal code and then all links between it and all products will be cleared.
Warning: This information will be unrecoverable, so it is advisable to back up your data before your do this!!

Removing all links between products and deal codes

Clicking the clear all links between products and ALL deal codes button on the deals screen will remove all links between all products stored in E4E and deal codes.
Warning: This information will be unrecoverable, so it is advisable to back up your data before your do this!!

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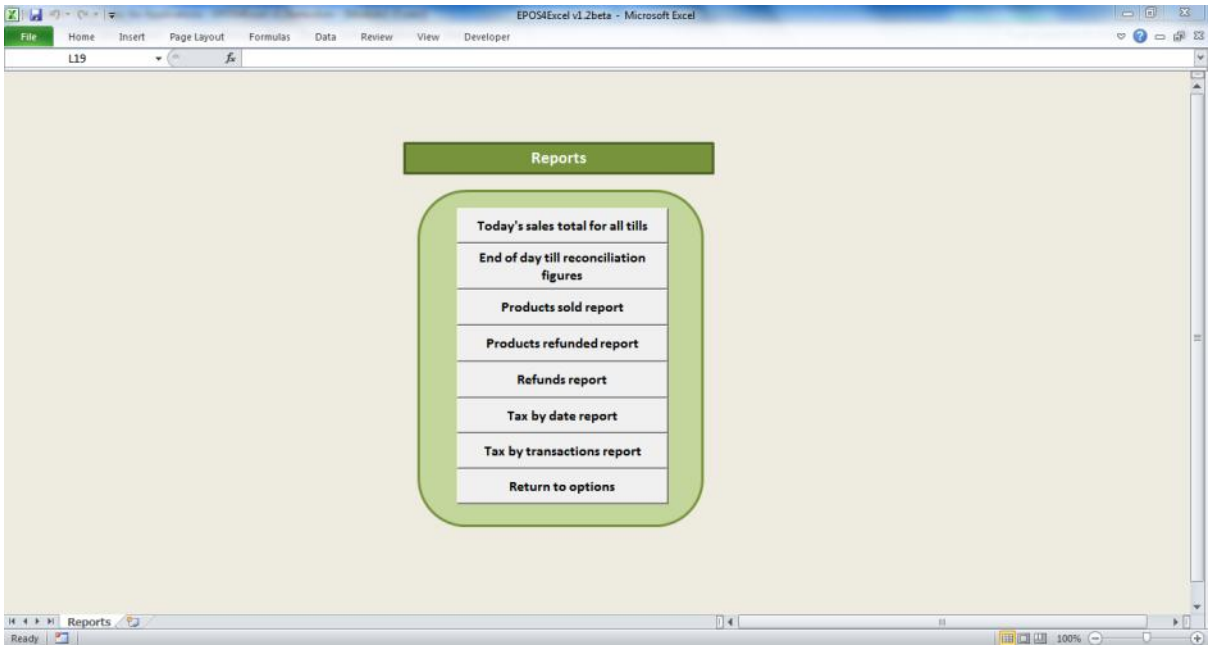
9. Reports

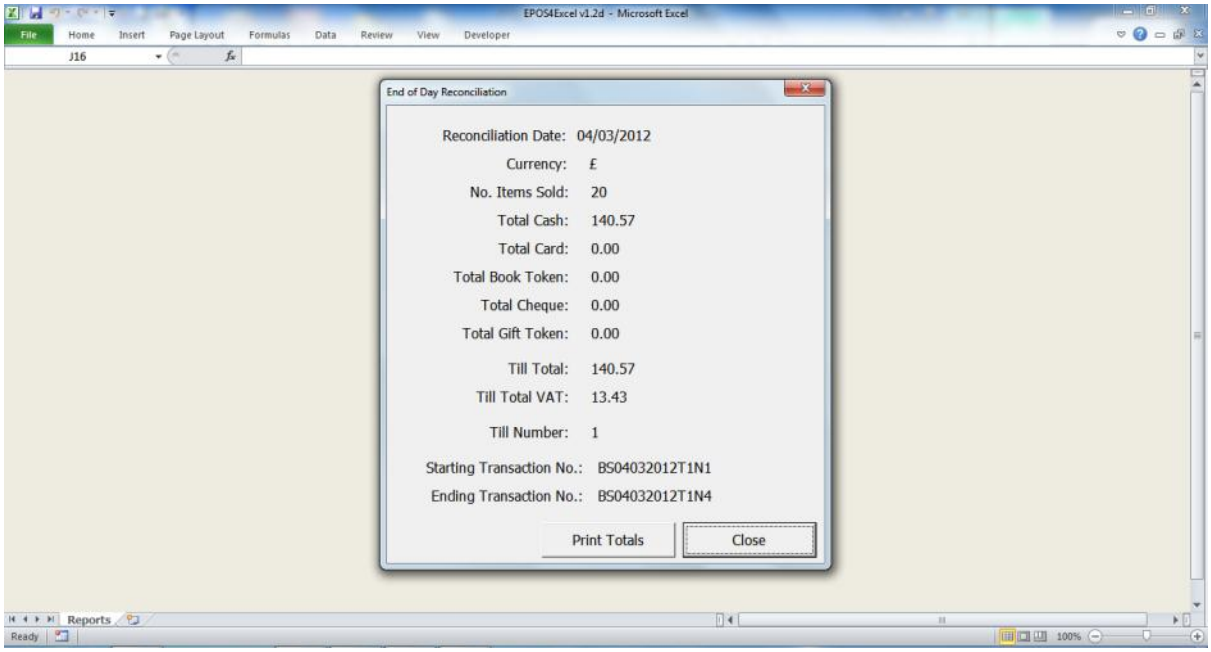


E4E offers seven sales reports: Today's sales total for all tills, End of day till reconciliation figures, Products sold report, Products refunded report, Refunds report, Tax by date report and Tax by transactions.

For those reports which are produced on an Excel worksheet you can always highlight the cells containing the report and cut / paste them to a new blank Excel worksheet. You will be able to manipulate the report as appropriate.

NOTE: The generation of reports assumes that all the sales data files created by E4E over the requested report period are stored in the E4E storage folder location defined in the E4E files settings. The generation of reports also assumes that you have not changed the layout of the sale data files from the layout that E4E produced it in.

End of day till reconciliation figures



This report details how much was sold on a specific day on a specific till. It breaks the figures down into different payment types.

1. When you have finished selling for the day. On the daily sales report click the end of day till reconciliation button.
2. You will be asked which date and till number you wish to show the till reconciliation figures for. Click 'today' for today's date and 'this till' for the current till number. Alternatively enter the date and the till number you want the reconciliation figures for.
3. A window will now pop up displaying the number of items sold and total amounts of each payment type have been taken for the specified day on the chosen till.
4. If sales were not made on that till number for that day a message will pop up explaining the reconciliation figures are not available
5. To print out the reconciliation totals for the selected till on a receipt click the print totals button.

When choosing dates choose the year first, month second and day third. You can access the 'End of day till reconciliation' figures in the way detailed above at any point during the sales period of the day. If you do it will just give you a running total of what you have taken on that till until the moment when you view it.

NOTE: For the till reconciliation totals to be fully calculated you will need to make sure the sales data stores the following:

> Payment Amounts 1 to 5, Payment Methods 1 to 5, Sale Total, Sale Total VAT, Transaction Number, Quantity

Reasons why the end of day till reconciliation figures might not match the amounts actually in the till

1. Did you take any initial till float amount off the total amount in the till at the end of the day?
2. For payment methods where you do not give change eg. card or cheque. Then discrepancies are likely due to user error eg. recording the wrong payment method for a sale, not putting a sale through the till. For card sales you should be able to match up transactions marked as

card in the E4E sales data with transactions on your card machine provider report for the card transactions for the day.

3. Did the sales assistant put through any coupons off the sale as gift token rather than a monetary discount off the sale?
4. If you are using multiple tills on a network and you have accidentally set two tills to have the same till number this will lead the end of day till reconciliation figures to be wrong (ie. the till reconciliations figures will end up being the sum of the amounts in both tills with the same till number rather than one till)

Sales total for all tills

On the reports screen you can click on the sales total for all tills. This will show the running total for what has been taken on all tills if you are running E4E on a network. If you are not running E4E on a network it will just display the total for the current till.

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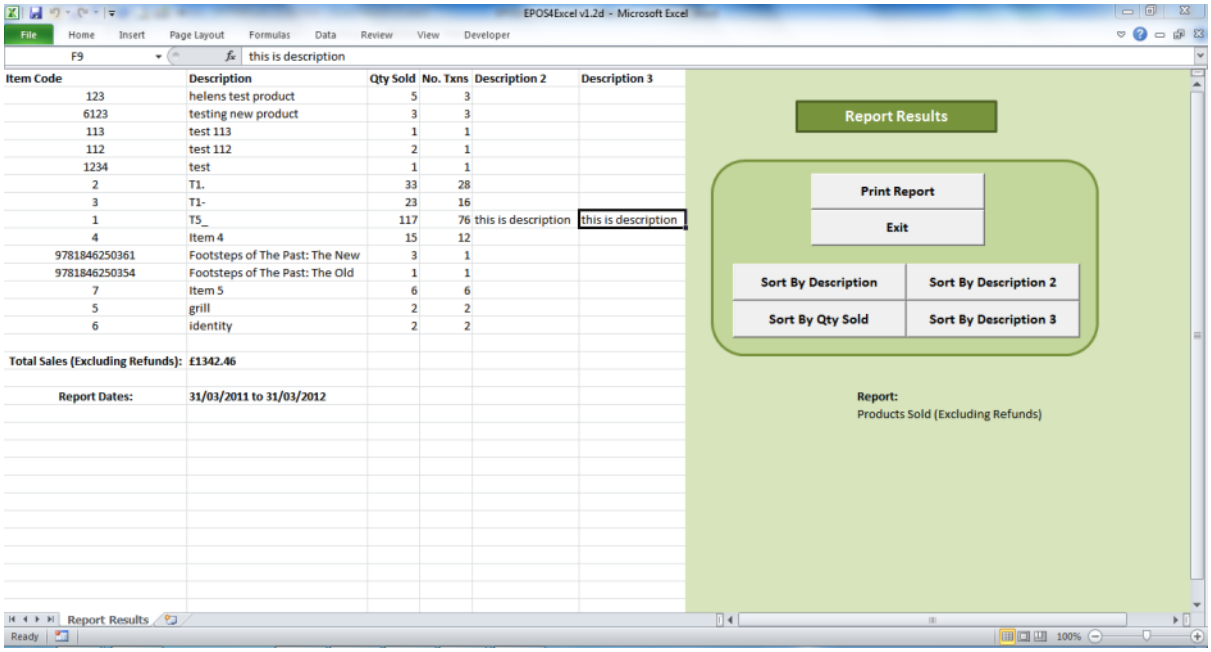
Products sold report



Item Code	Description	Qty Sold	No. Txns	Description 2	Description 3
123	helens test product	5	3		
6123	testing new product	3	3		
113	test 113	1	1		
112	test 112	2	1		
1234	test	1	1		
2	T1.	33	28		
3	T1-	23	16		
1	T5_	117	76	this is description	this is description
4	Item 4	15	12		
9781846250361	Footsteps of The Past: The New	3	1		
9781846250354	Footsteps of The Past: The Old	1	1		
7	Item 5	6	6		
5	grill	2	2		
6	identity	2	2		
Total Sales (Excluding Refunds):	£1342.46				
Report Dates:	31/03/2011 to 31/03/2012				

The products sold report lists all products and quantities sold (excluding refunds) in a user defined period.

1. On the reports screen click the products sold report button
2. Enter the start date for the report and the end date for the report. You can click the today button to enter today's date. Click ok to produce the report or cancel to cancel.

NOTE: When choosing dates choose the year first, month second and day third.
NOTE: The longer the time period you specify the longer it will take to produce the report.

You can sort your report by description, qty sold, descrition 2 or description 3. The No. Txns (number of transactions) tells you in how many separate transactions the quantity of item was sold. This can indicate if your best selling item was in fact not the best selling one because it was only one person who bought that amount. To print this report to an ordinary (not receipt) printer click the print report button:

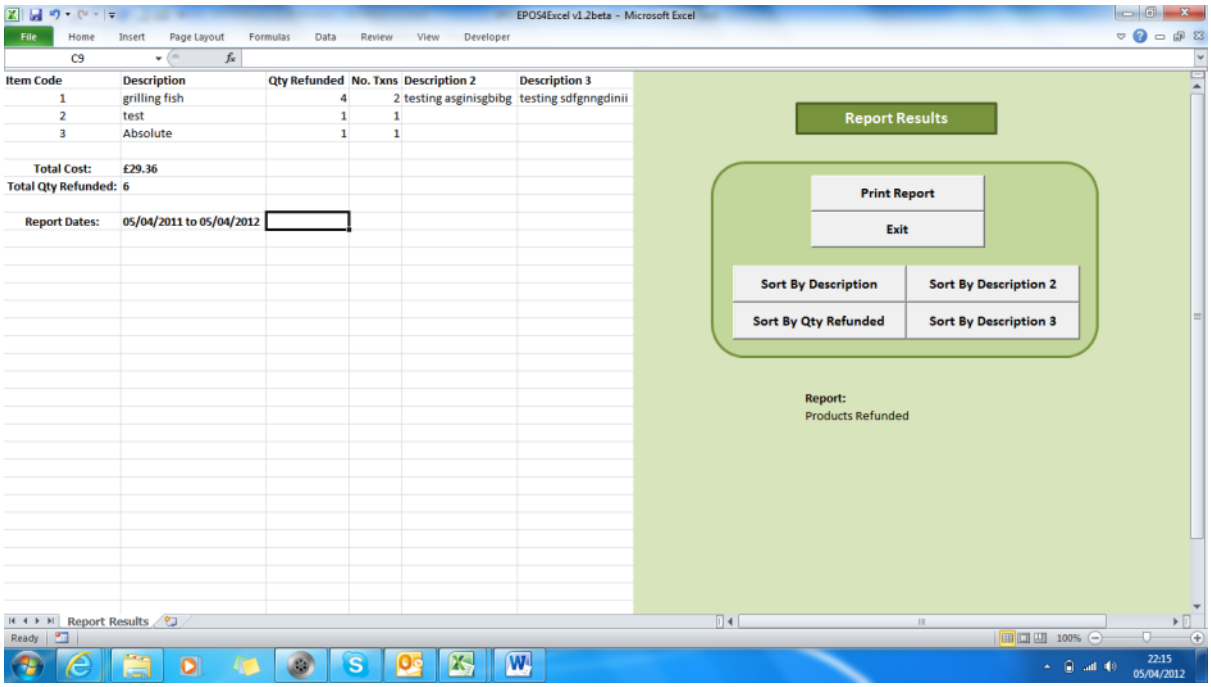
1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the report to.
2. If you wish to change printer settings you can click the set up button
3. Click ok to print or cancel if you no longer wish to print.

Any changes you make to the active printer when printing a report will be temporary.

NOTE: For the products sold report to be fully produced you will need to make sure the sales data stores the following:

Item Code, Item Description, Item Description 2, Item Description 3, Sale Total, Quantity, Transaction Number

Products refunded report



The products refunded report lists all products and quantities refunded in a user defined period.

1. On the reports screen click the products refunded report button
2. Enter the start date for the report and the end date for the report. You can click the today button to enter today's date. Click ok to produce the report or cancel to cancel.

NOTE: When choosing dates choose the year first, month second and day third.
NOTE: The longer the time period you specify the longer it will take to produce the report.

You can sort your report by description, qty refunded, descrition 2 or description 3. The No. Txns (number of transactions) tells you in how many separate transactions the quantity of item was refunded. This can indicate if your most refunded item was refunded in one transaction or many and therefore the products refunded report can indicate if there are problems with a certain product.

To print this report to an ordinary (not receipt) printer click the print report button:

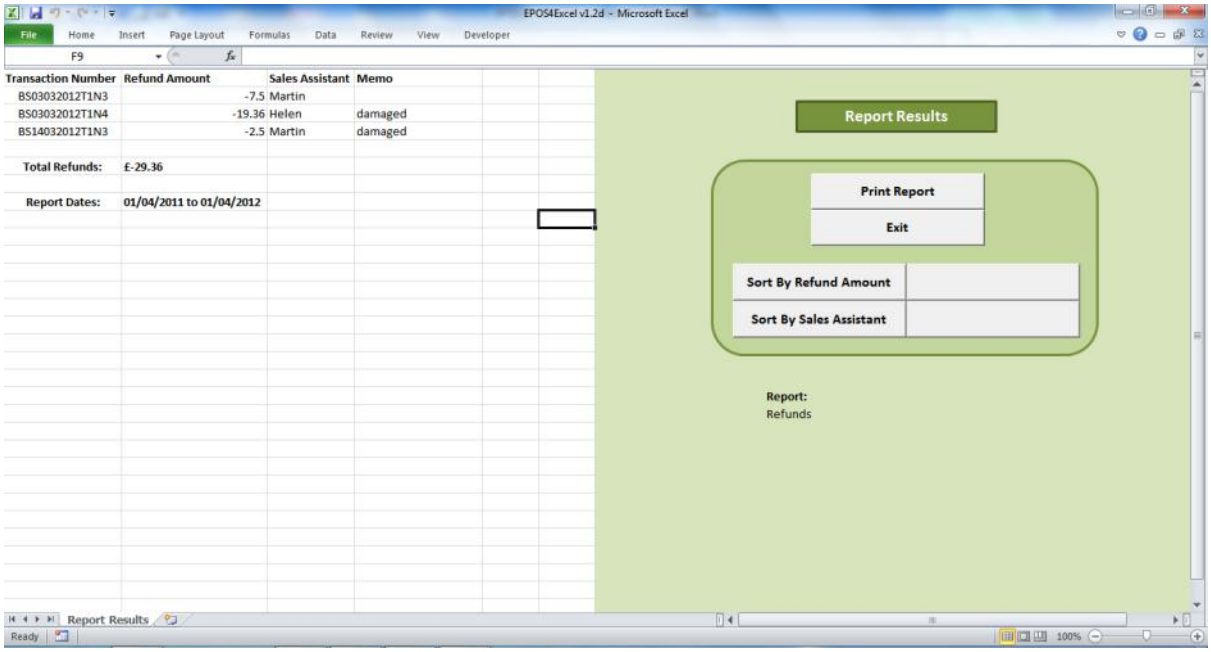
1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the report to.
2. If you wish to change printer settings you can click the set up button
3. Click ok to print or cancel if you no longer wish to print.

Any changes you make to the active printer when printing a report will be temporary.

NOTE: For the products refunded report to be fully produced you will need to make sure the sales data stores the following:

Item Code, Item Description, Item Description 2, Item Description 3, Sale Total, Quantity, Transaction Number

Refunds report



The refunds report lists all refunds made in a user defined period. It shows the transaction number for the refund, the refund amount, the sales assistant who was responsible for the refund and any memo about the reason for the refund. This report can indicate if there are patterns of refunds by specific sales assistants.

1. On the reports screen click the refunds report button
2. Enter the start date for the report and the end date for the report. You can click the today button to enter today's date. Click ok to produce the report or cancel to cancel.

NOTE: When choosing dates choose the year first, month second and day third.
NOTE: The longer the time period you specify the longer it will take to produce the report.

You can sort your report by refund amount and sales assistant.

To print this report to an ordinary (not receipt) printer click the print report button:

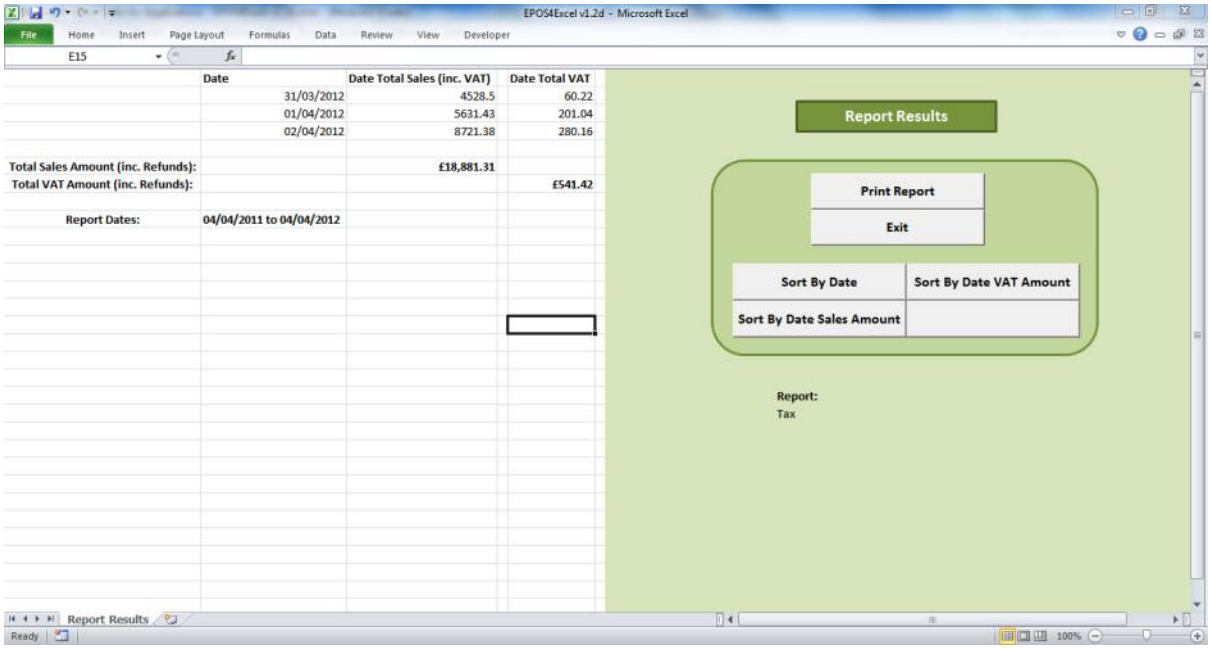
1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the report to.
2. If you wish to change printer settings you can click the set up button
3. Click ok to print or cancel if you no longer wish to print.

Any changes you make to the active printer when printing a report will be temporary.

NOTE: For the refunds sold report to be fully produced you will need to make sure the sales data stores the following:

Sales Assistant Name, Sale Total, Quantity, Transaction Number, Sale Memo

Tax by date report



The tax by date report lists dates in a user defined period with total sales amount (inc. tax) made on that day and total tax for that day. (Total sales amount = Total amount sold – Total amount refunded). **NOTE**: A negative amount indicates a refund.

1. On the reports screen click the tax by date report button
2. Enter the start date for the report and the end date for the report. You can click the today button to enter today's date. Click ok to produce the report or cancel to cancel.

NOTE: When choosing dates choose the year first, month second and day third.
NOTE: The longer the time period you specify the longer it will take to produce the report.

You can sort your report by date, date VAT amount and data sales amount.

To print this report to an ordinary (not receipt) printer click the print report button:

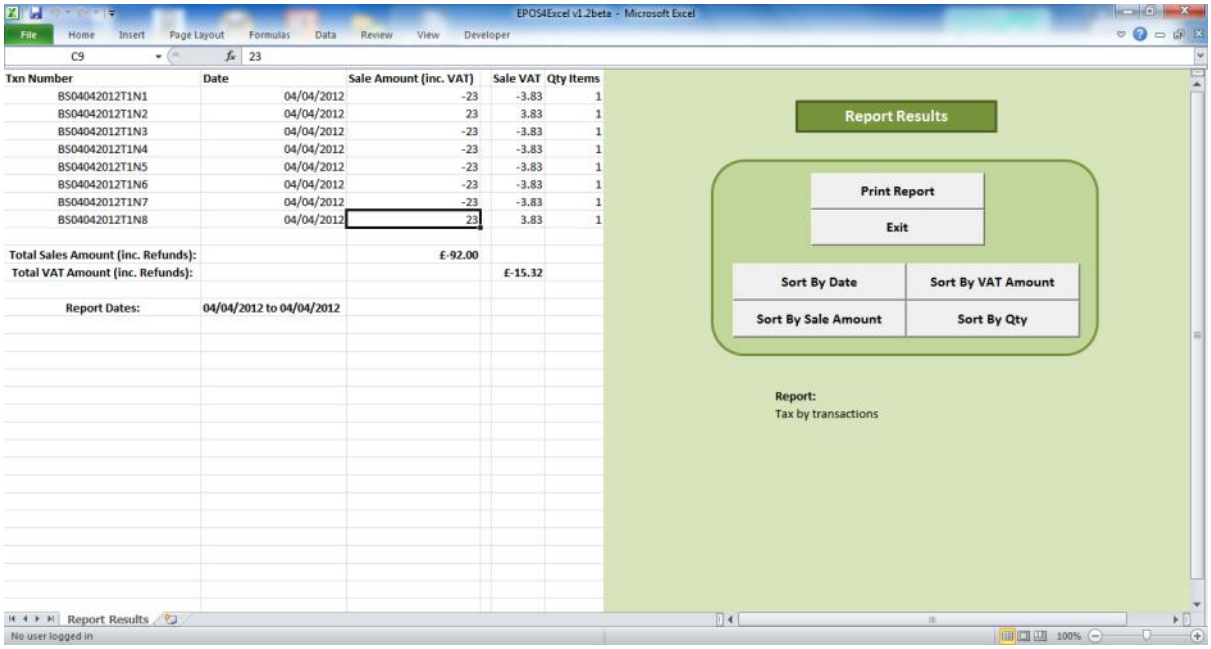
1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the report to.
2. If you wish to change printer settings you can click the set up button
3. Click ok to print or cancel if you no longer wish to print.

Any changes you make to the active printer when printing a report will be temporary.

NOTE: For the tax by date report to be fully produced you will need to make sure the sales data stores the following:

Sale Total, Sale Total VAT

Tax by transactions report



The tax by transactions report lists all transactions in a user defined period with transaction number sale amount (inc. tax), sale tax and quantity of items in the sale. A negative sale / sale VAT amount indicates a refund. (Total sales amount = Total amount sold – Total amount refunded)

1. On the reports screen click the tax by date report button
2. Enter the start date for the report and the end date for the report. You can click the today button to enter today's date. Click ok to produce the report or cancel to cancel.

NOTE: When choosing dates choose the year first, month second and day third.
NOTE: The longer the time period you specify the longer it will take to produce the report.

You can sort your report by date, VAT amount, qty items and sales amount.

To print this report to an ordinary (not receipt) printer click the print report button:

1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send the report to.
2. If you wish to change printer settings you can click the set up button
3. Click ok to print or cancel if you no longer wish to print.

Any changes you make to the active printer when printing a report will be temporary.

NOTE: For the tax by date report to be fully produced you will need to make sure the sales data stores the following:

Transaction number, Sale Total, Sale Total VAT

10. Tax settings

The tax settings in E4E should be edited so that every tax class that appears on your product list also appears in the tax class settings.

WARNING: Changing the % VAT settings in the middle of a sales session could cause problems with the sales data as the same product could be sold at different % VAT rates.

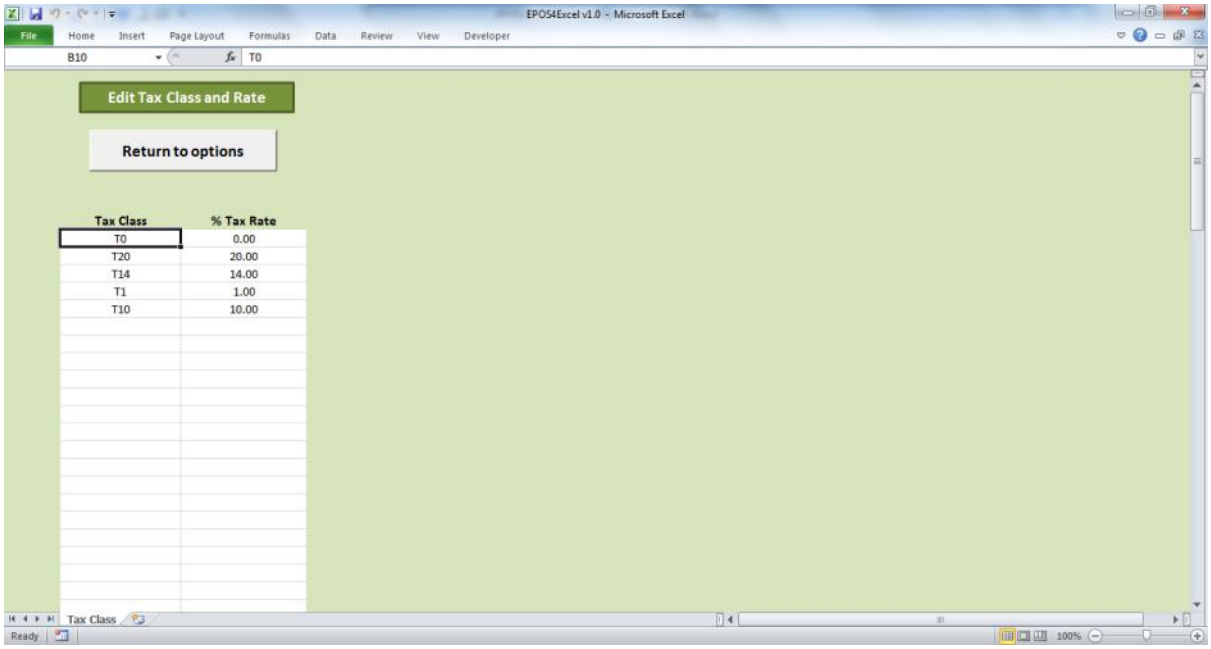
To edit the tax settings, on the EPOS settings screen click the tax settings button.

1. In the first column edit the Tax Class codes
2. In the second column edit % VAT rates linked the tax class codes
3. Click the 'Return to options' button.

The tax class code in the first column can be any combination of characters. This code is used to link products to a specific % VAT rate.

The % vat rate in the second column must be a percentage to a maximum of two decimal places.

If you are using E4E with multiple tills connected over a network then altering the tax class settings on one till will update all tills.

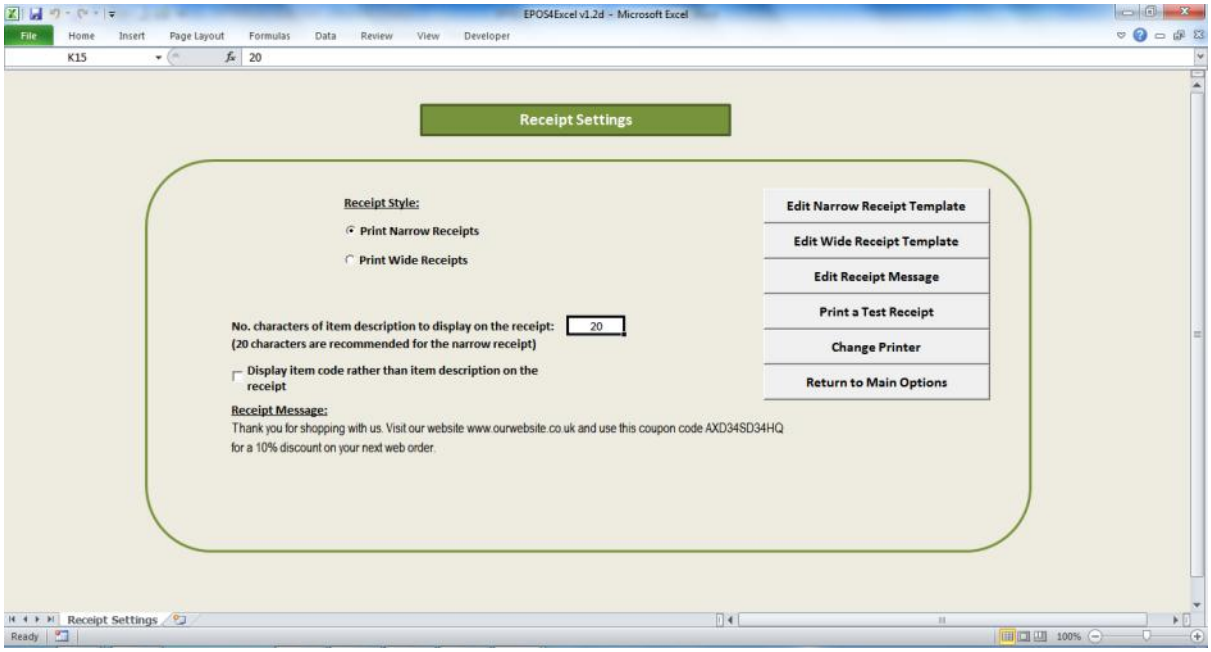


11. Editing the receipt settings

E4E offers you the option to print two types of receipt, either a 'narrow receipt' using a specialist USB receipt printer or a 'wide receipt' using an ordinary USB A4 printer. In this section we describe how to alter the layout and settings for both narrow receipts and wide receipts.

Accessing the Receipt Settings

On the EPOS settings screen click on the receipt settings button which will bring up the following screen:



On the receipt settings screen you can choose whether E4E will print narrow or wide receipts.

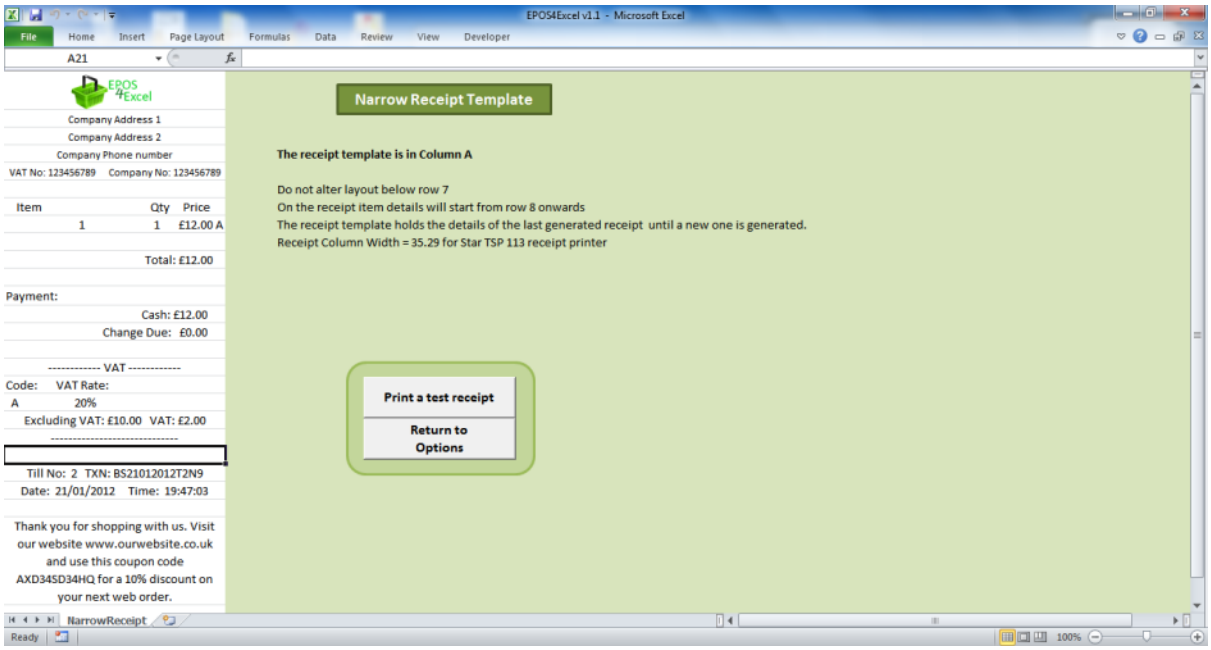
Changing the active printer

You can change the active printer to which receipts will be printed by clicking on the change printer button on the receipt settings screen.

1. A box will pop up giving you a list of printers available on the computer. From the list of printers click and highlight the printer you wish to send receipts to.
2. If you wish to change printer settings you can click the set up button.
3. Click ok to change the active printer or cancel if you no longer wish to change the active printer.

Setting up narrow receipts for use

Customising the company logo and company details on the narrow receipt template



1. On the edit narrow receipt template screen click the Excel 'review' menu (top of screen) and select 'unprotect sheet'
2. Click once on the 'EPOS 4 Excel' logo at the top of the receipt template and press the 'delete' key on your keyboard to delete the logo.
3. Click on the Excel 'Insert' menu and select 'picture'. Choose the file containing your company logo picture and insert it into the empty space which is now at the top of the receipt template. Move and adjust the size of the new logo to make it fit as appropriate.
4. As appropriate edit the lines of the receipt template containing the company address, company phone number, VAT number and company number. Do not alter the receipt template below row 7 as this part of the receipt will hold the sale details.
5. Click on the Excel review menu and select 'protect sheet'. Click 'ok' in the pop up box WITHOUT changing any of the other settings in the pop up box.
6. The logo and company details on the receipt have now been changed. You can print a test receipt to see how your new logo and company information looks on the narrow receipt by clicking the print test receipt button on the narrow receipt template screen.

NOTE: Changes to the narrow receipt template only affect the specific till they are made on. If you are running E4E on multiple tills over a network it is therefore a good idea to make the customisation changes to the receipt template before you place copies of the E4E workbook on all your tills.

Altering the width of the narrow receipt

E4E has been tested to work on the Star TSP113 receipt printer. It may be necessary to alter the receipt width for different receipt printers. It is advisable to only change the narrow receipt width if this is absolutely necessary.

1. On the edit narrow receipt template screen click the Excel 'review' menu (top of screen) and select 'unprotect sheet'.
2. Drag the width of column A to make it larger or smaller.
3. Click on the Excel review menu and select 'protect sheet'. Click 'ok' in the pop up box WITHOUT changing any of the other settings in the pop up box.
4. Print a test receipt to see how it looks

NOTE: Changing the narrow receipt width only affects the specific till this is done on. If you are running E4E on multiple tills over a network it is therefore a good idea to make the customisation changes to the receipt template on one copy of E4E and then place copies of this E4E workbook on all your tills.

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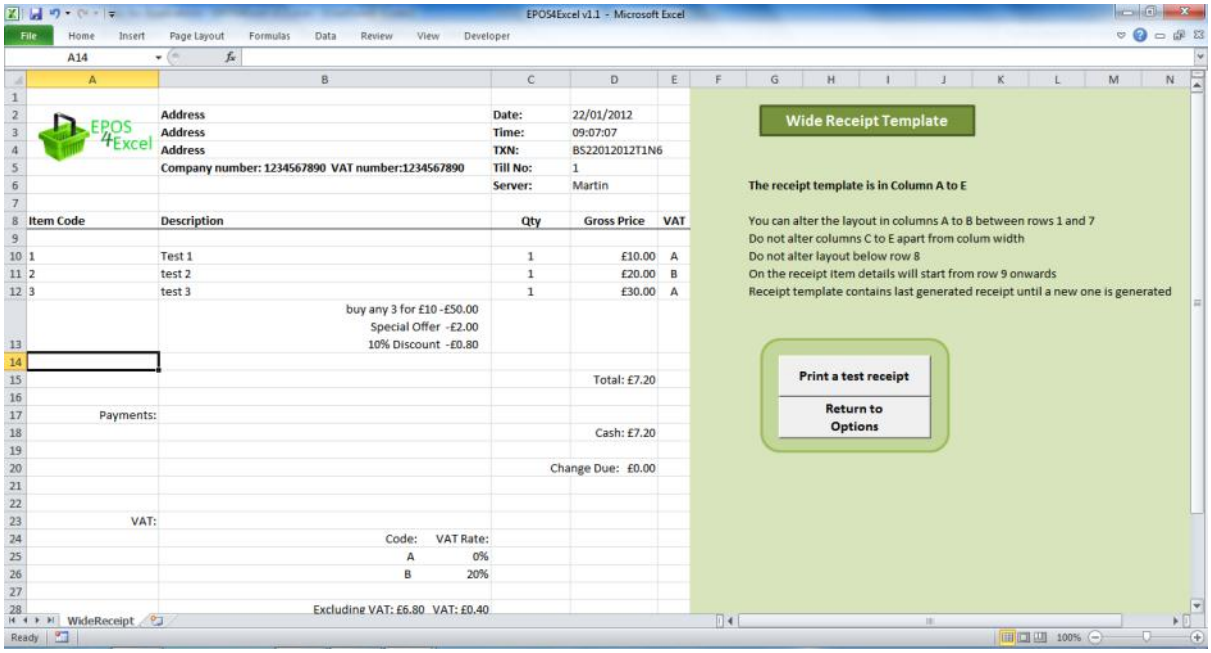
Setting up wide receipts for use

Customising the company logo and company details on the wide receipt template



1. On the edit wide receipt template screen click the Excel 'review' menu (top of screen) and select 'unprotect sheet'
2. Click once on the 'EPOS 4 Excel' logo at the top of the receipt template and press the 'delete' key on your keyboard to delete the logo.
3. Click on the Excel 'Insert' menu and select 'picture'. Choose the file containing your company logo picture and insert it into the empty space which is now at the top of the receipt template. Move and adjust the size of the new logo to make it fit as appropriate.
4. As appropriate edit the columns A and B of the wide receipt template which contain the company address, company phone number, VAT number and company number. Do not alter the receipt template below row 7 as this part of the receipt will hold the sale details.
5. Click on the Excel review menu and select 'protect sheet'. Click 'ok' in the pop up box WITHOUT changing any of the other settings in the pop up box.
6. The logo and company details on the receipt have now been changed. You can print a test receipt to see how your new logo and company information looks on the wide receipt by clicking the print test receipt button on the wide receipt template screen.

NOTE: Changes to the wide receipt template only affect the specific till they are made on. If you are running E4E on multiple tills over a network it is therefore a good idea to make the customisation changes to the receipt template before you place copies of the E4E workbook on all your tills.

Receipt layout settings which apply to both narrow and wide receipts

Changing how many characters of the item description are to appear on the receipt

On the receipt settings screen enter in the appropriate box the number of the characters of the item description you wish to display on the receipt. NOTE: This needs to be a whole number! We recommend about 20 characters if you are printing narrow receipts and if you want to print the whole description on a wide receipt we suggest using a large number such as 9999.

Displaying the item code rather than the item description on the receipt

You can choose to display only the item code rather than the item description on the receipt by ticking the checkbox on the receipt settings screen.

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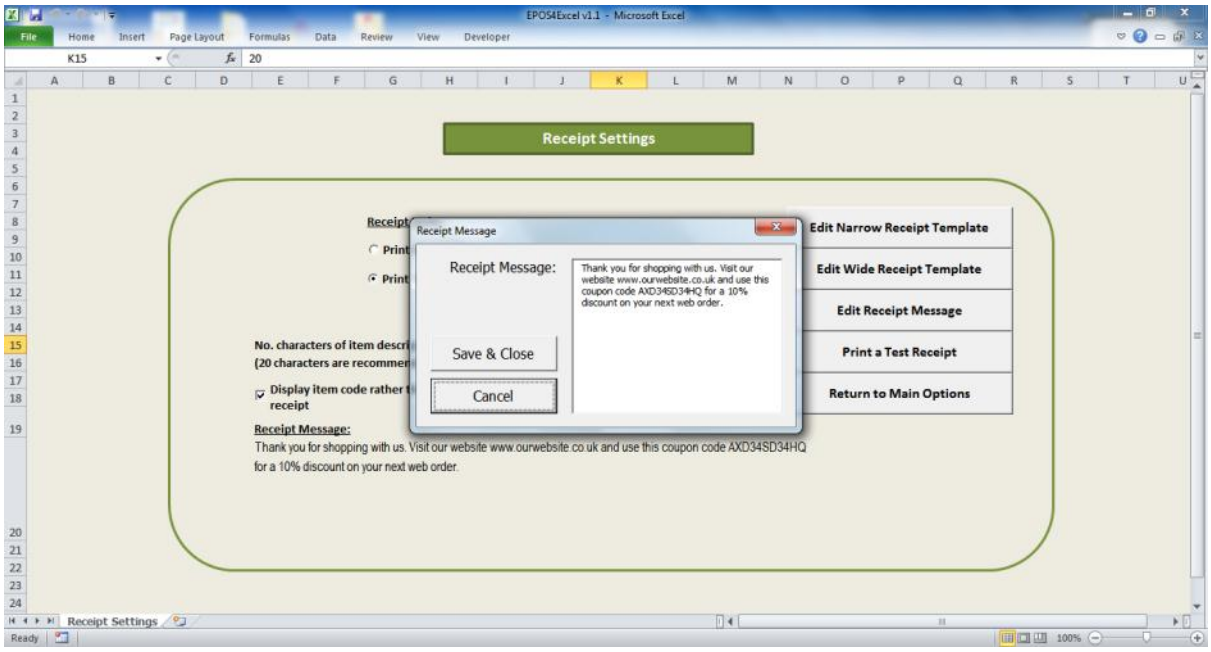
Editing the message at the end of receipt



1. To change the receipt message on the receipt settings screen click the edit receipt message button.
2. A window will pop up and allow you edit the message. The text will automatically wrap onto a new line on the receipt if necessary. You may have to play about with adding extra spaces to get the layout on the receipt you want. Click the save & close button to save any changes or the cancel button to discard any changes you have made.
3. Click the print test receipt button to print out a sample receipt containing the new message.
4. The receipt message should now be changed from the next sale onwards.

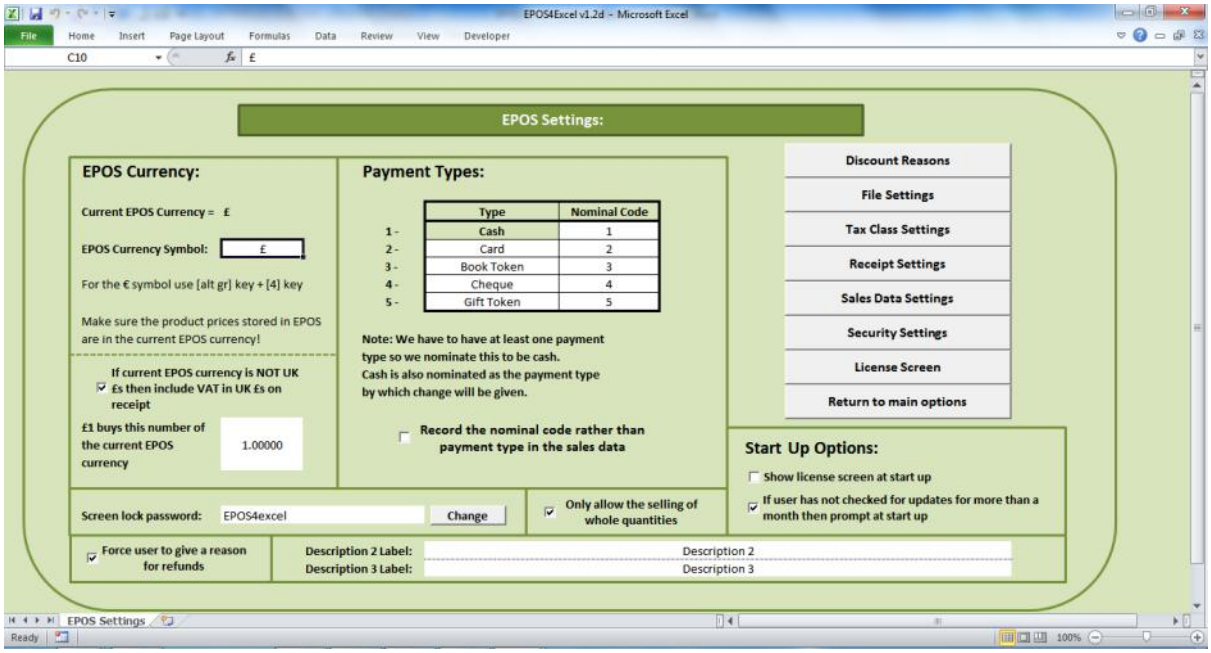
NOTE: If you are running E4E on multiple tills over a network then altering the receipt message on one till will alter it on all tills.

Printing VAT in UK pounds on the receipt when using a different currency

E4E enables you print both a sale's VAT in UK pounds (£) and in the current E4E currency on the receipt. You can enable this option on the EPOS settings screen by ticking the checkbox and entering the appropriate exchange rate.

For details of why the option is included, see the UK VAT rules for a UK registered company that makes some sales in a foreign currency:

http://www.hmrc.gov.uk/vat/managing/international/foreign-currency.htm (Accessed 13/3/2012)



Printing a test receipt

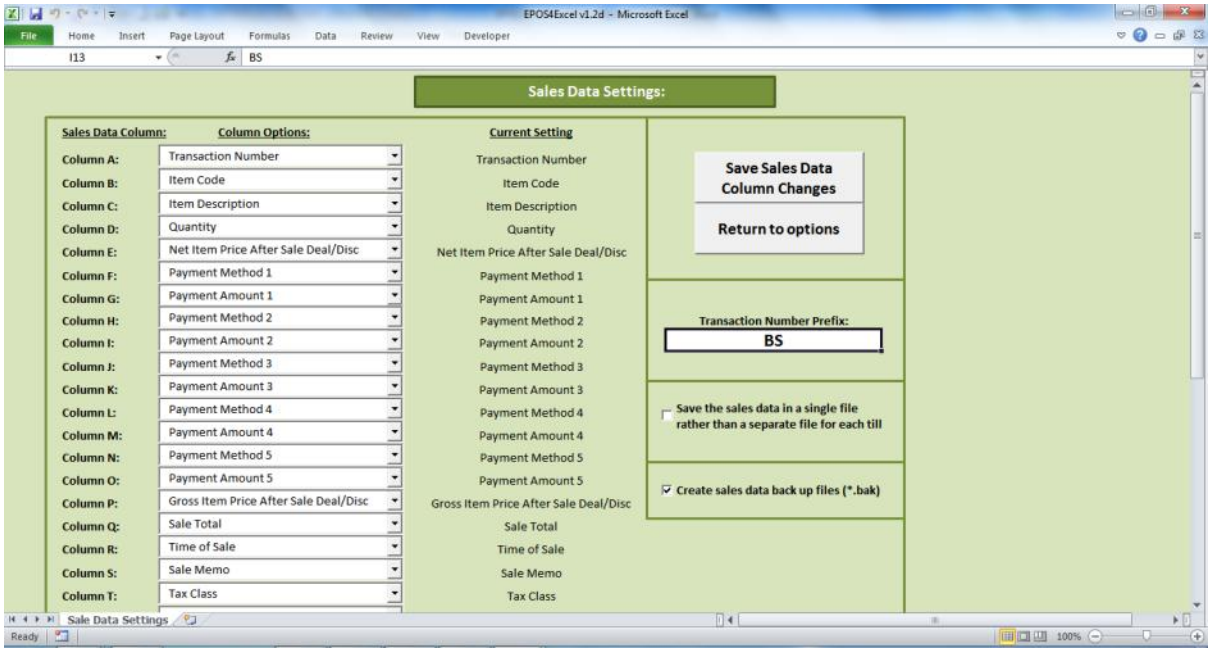
On the receipt settings screen clicking the print test receipt button will print either a narrow receipt or wide receipt dependent on the current user selection for receipts. This enables you to check your printer is working without having to make a sale OR to check you are happy with any changes to receipt layout that you have made.

12. The sales data, customer order data and system data

A single sales data file or one for each till?

If you are using E4E on multiple tills over a network you can choose to store the sales data in individual files for each till or in one file for all tills. To choose this, on EPOS settings screen click the sales data settings button. Then tick / untick the save sales data in a single file rather than a separate file for each till checkbox as appropriate.

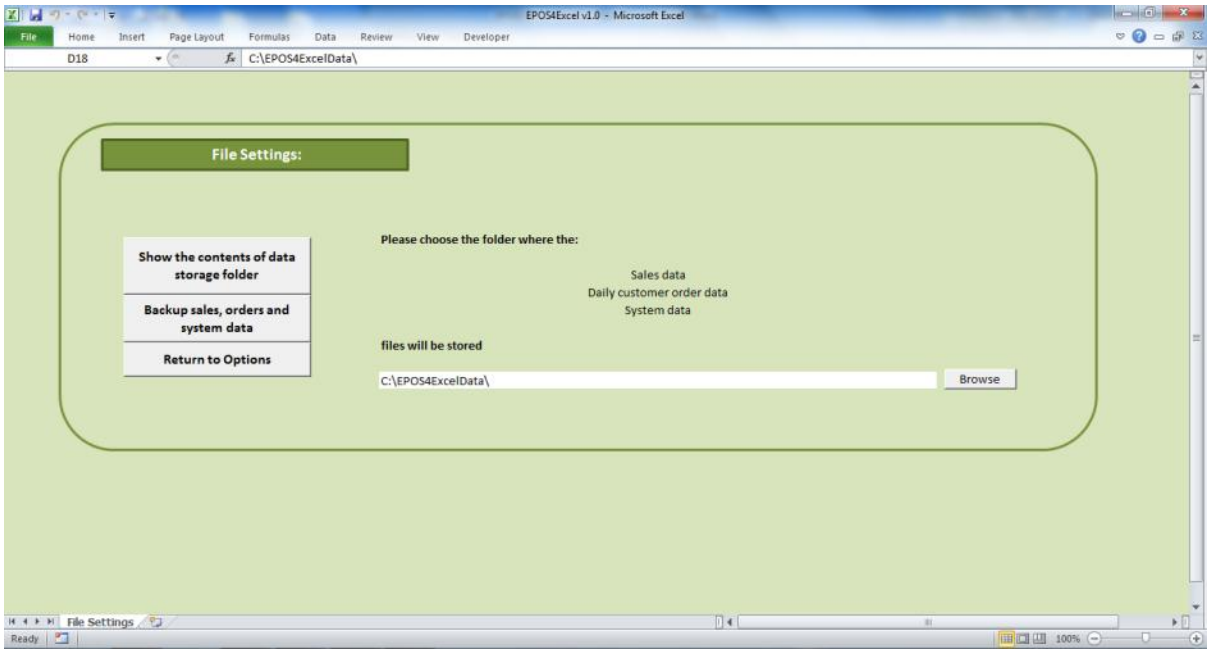
This setting will need to be set up to be the same on each individual instance of E4E running on your network.



Create sales data back-up files

If you tick the create sales data back-up files option on the sale data settings screen then E4E will created a back of the sales data in the same folder that the sales data is stored. The back-up filename will have a file extension *.bak and will be a duplicate of the sales data file.

Accessing the orders and sales data



The sales data and orders data will be found in the data storage folder for E4E. To find this on the EPOS settings screen click the file settings button. You will find the storage folder details on this screen. Either navigate to this folder manually to access the files or click on the show contents of storage folder button to open a window showing the files in the storage folder.

E4E data files are named as follows:

If you choose a sales data file for each till:

sales*DDMMYYYY*T*X*.CSV	where DDMMYYYY is the date when the sales were made and X is the Till number upon which the sales were made. This is a comma separated values file.

If you choose a single sales data file for all tills:

sales*DDMMYYYY*.CSV	where DDMMYYYY is the date when the sales were made. This is a comma separated values file.

If you choose to create a back-up sales data file:

salesDDMMYYYYTX.bak OR salesDDMMYYYY.bak	This is a comma separated values file and is a duplicate of the sales .CSV file.

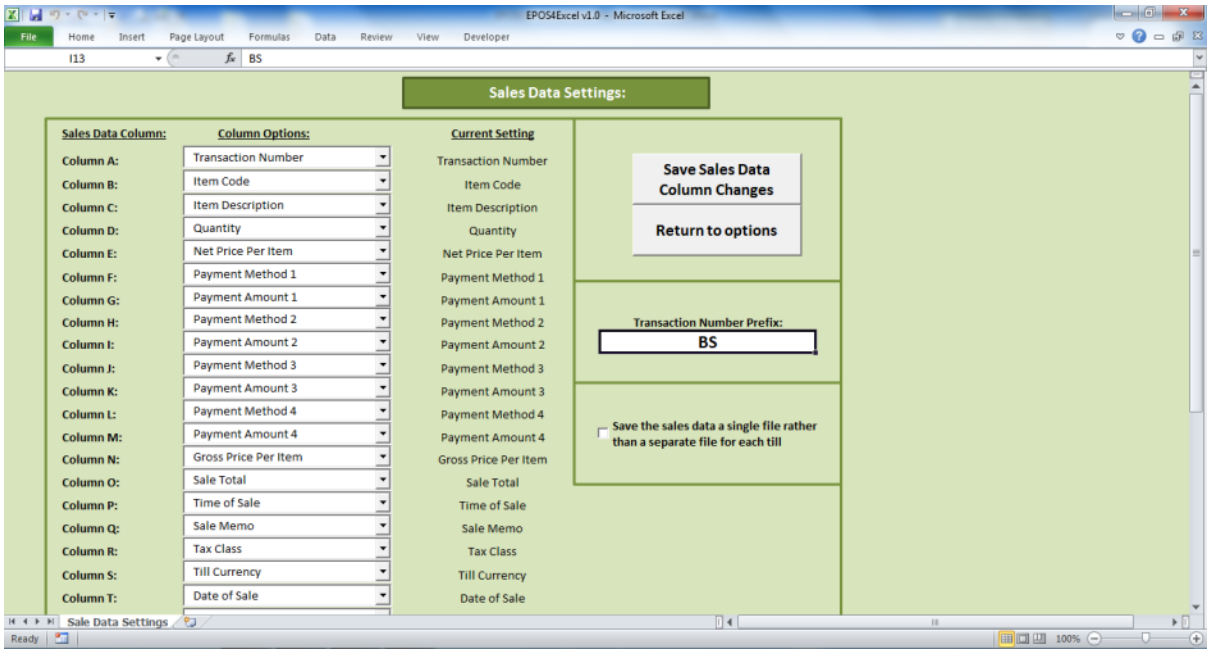
The customer orders data file:

orders*DDMMYYYY*.XLSX	where DDMMYYYY is the date when the customer orders / enquiries were made. This is an Excel workbook file.

Every day E4E will automatically start new sales data / customer orders data files and name them in the above format.

NOTE: It is advisable when manually processing the sales data files that you only work on a copy. Copying the file means you don't destroy the original sales data during processing and therefore the original sales data can always be accessed again. **Also note that generation of reports depends on the sales data files being in the same layout as E4E created them – if you wish to change the layout (eg. sorting them) then only do this on a copy of the file which is stored in the storage folder.**

Customising the layout of the sales data



On the sales data settings screen (available through the EPOS settings screen) it is possible to customise the layout of the sales data in the .CSV file that E4E generates. You can choose which piece of data will appear in which column of the sales data file by choosing the column options from the drop down lists and then clicking the save sales data column changes button to complete your changes. This is useful if you will be importing the sales data to an accounting software package. You can layout the sales data in a format identical or near identical to the format you need for importing.

NOTE: Changing the column settings will have to be done separately for each till running on a network unless you customise the E4E workbook and then place a new copy of it on each till.

The options for what the sales data columns can contain are as follows:

Warning: If you do not choose to include a specific option in the sales data then that specific data regarding the sale will not be kept. It is advisable to make sure the sales data records all possible information regarding the sale even if you think you will not need it just in case you do need it in the future. Information regarding the sale not saved in the sales data will be lost irretrievably.

Warning: If you do not choose to include a specific option in the sales data then this may stop E4E being able to produce reports from the sales data. To produce reports your sales data will need to include the following:

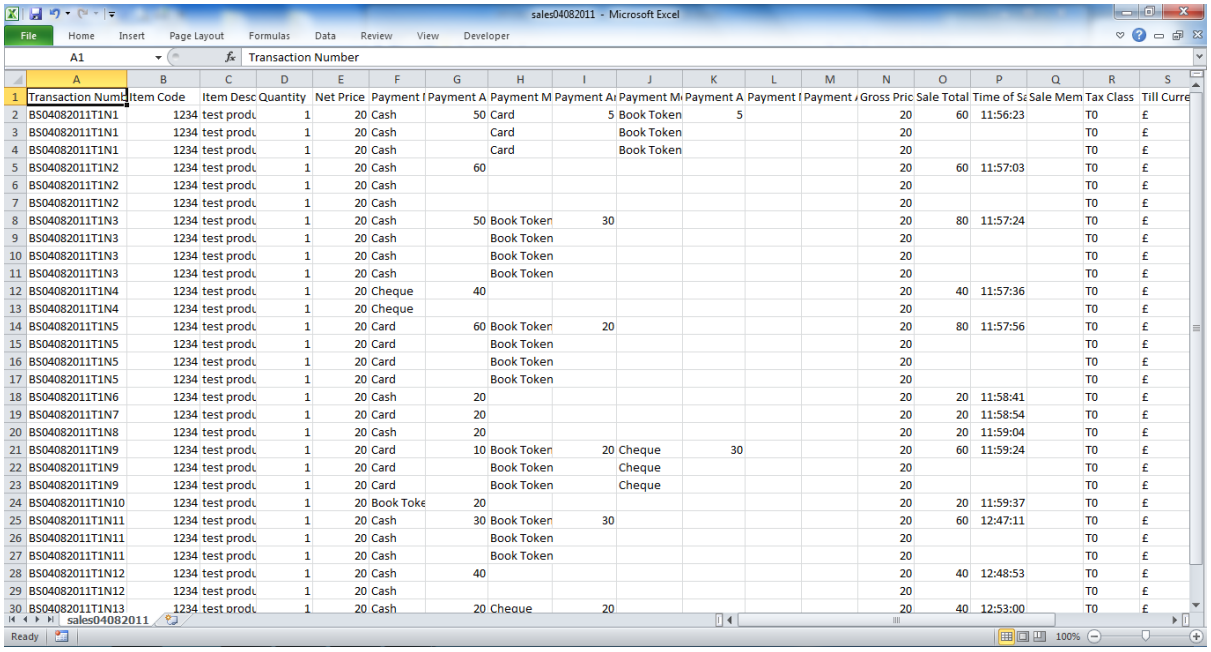
Payment Amounts 1 to 5, Payment Methods 1 to 5, Sale Total, Sale Total VAT, Transaction Number, Quantity, Item Code, Item Description, Item Description 2, Item Description 3, Sales Assistant Name, Sale Memo

Column Option	Description
Transaction Number	Each individual sale is allocated a **unique** transaction number in the following format: BS13082011T1N12 Transaction Number can be interpreted as follows: The first section: The transaction number prefix chosen on the sales data settings screen The next eight numbers: DDMMYYYY = the date that the sale was made on The next letter and numbers: T = Till and the number following it will be till number The last letter and numbers: N and numbers following it signify the number of the sale on that till for that day
Item Code	The SKU / Item code of a product in the sale
Item Description	The description of the product identified by the item code in this row of the sales data
Quantity	How many of the item (identified by the item code in this row of the sales data) was sold
Net Item Price After Sale Deal / Disc	The price (excluding VAT) of the item identified in this row of the sales data AFTER any deals / discounts have been applied. **See also the 'KNOWN ISSUE' box below.**
Sale Total VAT	The total amount of VAT on the whole sale. NOTE: This will only appear on the first row of the sale in the sales data
Payment Method 1 Payment Method 2 Payment Method 3 Payment Method 4 Payment Method 5	The different payment types the customer used to pay for the sale eg. 'cash', 'card' etc. Payment Method 1 will be the first payment type the customer used, Payment Method 2 will be the second payment type the customer used. If a customer uses less than five payment types then unused payment methods will be left blank in the sales data. NOTE: If you choose to record the nominal code and not the payment type in the sales data on the EPOS settings screen, then this column will contain the nominal code identifying the payment method and not words describing the payment type
Payment Amount 1 Payment Amount 2 Payment Amount 3 Payment Amount 4 Payment Amount 5	The different payment amounts the customer used to pay for the sale ie. Payment Amount 1 will be the amount the customer paid using Payment Method 1 and so on. For any unused payment methods the payment amount will be left blank in the sales data. NOTE: Payment amounts will only appear on the first row of the sale in the sales data. NOTE: Payment amounts in the sales data are the actual amounts that the sales assistant enters in the payments box. However the cash payment amount will be the cash amount entered in the payments box less any change given. Therefore if a customer pays for a £9 sale with a £10 gift token, the cash payment amount in the sales data will be -£1 signifying £1 was given in change.

Gross Item Price After Sale Deal/Disc	The price (including VAT) of the item identified by the item code in this row of the sales data AFTER any deals and discounts have been applied.
Gross Item Price Before Sale Deal/Disc	The price (including VAT) of the item identified by the item code in this row of the sales data BEFORE any deals or discounts have been applied
Sale Total	The total price of the whole sale (including VAT). NOTE: This will only appear on the first row of the sale in the sales data
Time of Sale	The time of the sale NOTE: This will only appear on the first row of the sale in the sales data
Sale Memo	Contains any memo the user entered during the payments process. In addition the sale memo will also contain a notification if the sale is a prepaid customer order. If it is a refund the sale memo will contain the reason the sales assistant gave for the refund NOTE: The sale memo will only appear on the first row of the sale in the sales data. **See also the 'KNOWN ISSUE' box below.**
Tax Class	The tax class of the **item** (NOT of the whole sale!) identified by the item code in this row of the sales data
Till Currency	The currency symbol and therefore currency that E4E is currently working in.
Date of Sale	The date of the sale
Till Number	The number of the till that made the sale
Sale Number	The number of the sale on the till that made the sale NOTE: Sale number will begin again 1 for every new day of sales
Sales Assistant Name	The first name of the sales assistant who was using the till if this was entered on the sales screen
Sale Deals/Discounts	This contains a string listing the deals and discounts (and reasons) applied to the *whole* sale. This will be the same wording that appears on the sale receipt. **See also the 'KNOW ISSUE' box below** NOTE: This will only appear on the first row of the sale in the sales data
Item Price Change/Disc	This contains a string listing any price changes / discounts applied to item identified by the item code in this row of the sales data. **See also the 'KNOW ISSUE' box below**
Item Product List Price	The price on the product list of the item identified by the item code in this row of the sales data
Description 2	Description 2 of the of the item identified by the item code in this row of the sales data
Description 3	Description 3 of the item identified by the item code in this row of the sales data
Empty	A blank column

NOTE: Each separate sale in the sales data can be identified by the different transaction numbers. All the products from one specific sale will have the same transaction number and are recorded on consecutive rows. The payment amounts, sale total, memo, sale total VAT and time of sale will only appear in the row containing the first product in the sale. The rest of the sales data options will appear on every row of the sale.

NOTE: Columns AA (Till Number) is the sales data is fixed and you cannot change is. Column AA (Till Number) is used by E4E for calculating the reports from the stored daily sales data.
Example Sales data from a sales data .CSV file:



Transaction Numb	Item Code	Item Desc	Quantity	Net Price	Payment I	Payment A	Payment M	Payment Ar	Payment Mi	Payment A	Payment I	Payment /	Gross Pric	Sale Total	Time of Sa	Sale Mem	Tax Class	Till Curre
BS04082011T1N1	1234	test produ	1	20	Cash	50	Card	5	Book Token	5			20	60	11:56:23		T0	£
BS04082011T1N1	1234	test produ	1	20	Cash		Card		Book Token				20				T0	£
BS04082011T1N1	1234	test produ	1	20	Cash		Card		Book Token				20				T0	£
BS04082011T1N2	1234	test produ	1	20	Cash	60							20	60	11:57:03		T0	£
BS04082011T1N2	1234	test produ	1	20	Cash								20				T0	£
BS04082011T1N2	1234	test produ	1	20	Cash								20				T0	£
BS04082011T1N3	1234	test produ	1	20	Cash	50	Book Token	30					20	80	11:57:24		T0	£
BS04082011T1N3	1234	test produ	1	20	Cash		Book Token						20				T0	£
BS04082011T1N3	1234	test produ	1	20	Cash		Book Token						20				T0	£
BS04082011T1N3	1234	test produ	1	20	Cash		Book Token						20				T0	£
BS04082011T1N4	1234	test produ	1	20	Cheque	40							20	40	11:57:36		T0	£
BS04082011T1N4	1234	test produ	1	20	Cheque								20				T0	£
BS04082011T1N5	1234	test produ	1	20	Card	60	Book Token	20					20	80	11:57:56		T0	£
BS04082011T1N5	1234	test produ	1	20	Card		Book Token						20				T0	£
BS04082011T1N5	1234	test produ	1	20	Card		Book Token						20				T0	£
BS04082011T1N5	1234	test produ	1	20	Card		Book Token						20				T0	£
BS04082011T1N6	1234	test produ	1	20	Cash	20							20	20	11:58:41		T0	£
BS04082011T1N7	1234	test produ	1	20	Card	20							20	20	11:58:54		T0	£
BS04082011T1N8	1234	test produ	1	20	Cash	20							20	20	11:59:04		T0	£
BS04082011T1N9	1234	test produ	1	20	Card	10	Book Token	20	Cheque	30			20	60	11:59:24		T0	£
BS04082011T1N9	1234	test produ	1	20	Card		Book Token		Cheque				20				T0	£
BS04082011T1N9	1234	test produ	1	20	Card		Book Token		Cheque				20				T0	£
BS04082011T1N10	1234	test produ	1	20	Book Toke	20							20	20	11:59:37		T0	£
BS04082011T1N11	1234	test produ	1	20	Cash	30	Book Token	30					20	60	12:47:11		T0	£
BS04082011T1N11	1234	test produ	1	20	Cash		Book Token						20				T0	£
BS04082011T1N11	1234	test produ	1	20	Cash		Book Token						20				T0	£
BS04082011T1N12	1234	test produ	1	20	Cash	40							20	40	12:48:53		T0	£
BS04082011T1N12	1234	test produ	1	20	Cash								20				T0	£
BS04082011T1N13	1234	test produ	1	20	Cash	20	Cheque	20					20	40	12:53:00		T0	£

KNOWN ISSUE: The gross item price (including VAT) in E4E is held in the products list. E4E calculates the net item price (excluding VAT) from the gross item price using the VAT fraction method (See appendix C). This can introduce an unavoidable rounding error when calculating the net item prices. Therefore sometimes adding up the net prices for a sale in the sales data and then adding the total sale VAT does not quite equal the actual sale total. If you are working in conjunction with a computerised accounting package it is best to upload gross item prices and allow it to calculate the VAT appropriately. If you do upload net item prices to your computerised accounting package you may have to make manual adjustments to the sales data to account for these small rounding errors.

NOTE: This issue is restricted to calculating the net item price from the gross item price and storing it in the sales data. E4E does calculate the total VAT on the sale and display this on the receipt and in the sales data (Sale Total VAT) accurately.

KNOWN ISSUE: Due to the way Excel imports .CSV files the 'sale memo', 'Sale Deals/Discounts' and 'Item Price Change/Disc' columns in the sales data, cells may contain more text than is visible when you first open the sales data in Excel. If you highlight the whole column and select the 'wrap text' option in Excel then any extra text in the cells will become visible.

Understanding the different item prices that appear in the sales data

E4E enables you to store various different item prices in the sales data. Here we clarify the links between these prices:

Item Product List Price	This is the gross (inc. VAT) item price on the product list
↓	
Gross Item Price Before Sale Deal/Disc	This is the gross (inc. VAT) item price after any item price changes or item percentage discounts were made to it BUT before any deals or discounts were applied to the whole sale. If there were no item price changes then this will be the same as the Item Product List Price.
↓	
Gross Item Price After Sale Deal/Disc	This is the gross (inc. VAT) final item price after all discounts and deals have been applied. If there were no sale discounts / deals then this will be the same as the Gross Item Price Before Sale Deal/Disc.
↓	
Net Item Price After Sale Deal / Disc	This is the net (exc. VAT) final item price after all discounts and deals have been applied

The 'Gross Item Price After Sale Deal/Disc' is the price that the item effectively sold for after all item price changes, deals and discounts have been applied. It is from this price that you would calculate the VAT due on this item. If you total all the individual 'Gross Item Price After Sale Deal/Disc' prices up in a sale they will come to the sale total. If you total up all the VAT due on the individual 'Gross Item Price After Sale Deal/Disc' prices in a sale then it will come to the sale's total VAT.

If you are using a computerised accounting system alongside E4E then the 'Gross Item Price After Sale Deal/Disc' is more than likely the one you would have to upload to your accounting system.

For more details about how these different prices are calculated and why it is necessary to do it in this way see Appendix C of this user manual.

Changing the transaction number prefix

On the sales data setting screen you change the prefix of the transaction number in the sales data by typing in a different prefix in the box.

Backing up the sales data, customer order data and system data.

There are two options for backing up the sales data, customer order data and system data:

1. Manually navigate to the E4E folder containing the data and make a copy of it
2. On the file settings screen click the back up sales, orders and system data button. Choose the folder location you wish to back the data up to. (You will be able to choose to create a new folder here). E4E will then back up the data for you to your chosen location.

It is advisable to back up the storage folder at the end of each day of selling.

NOTE: For descriptions of the data the system data files contain see Appendix D

13. EPOS 4 Excel Security Settings

Due to the nature of Excel it is impossible for EPOS 4 Excel to give security that is 100% secure, anyone with an advanced level of understanding Excel would be able to crack it. However E4E does includes some basic security options that you can enable.

E4E has three built in security levels which, if enabled, you can use to limit what certain people can do by only given them the password for a specific level of access to E4E functions. The security levels are as follows:

Sales Security Level Functions	**Supervisor Security Level Functions**	**Administrator Security Level Functions**
Making Sales	*All Sales Level Functions* AND	*All Supervisor Level Functions* AND
Create / Delete / Edit Customer Orders	Add / Edit Product Details	EPOS Settings
Product Search	Reports	Clear Stock Levels
Refund (*optional*)	Deals Functions	Delete Products
Add / Edit Product Details (*optional*)	Stock Level Functions (*Except* Clear Stock Levels)	
Sale / Item discounts (*optional*)	Change Till Number	
	Sale / Item Discounts	

Each security level has one password ie. all sales assistants would use the same password, all supervisors would use the sale password and all administrators would use the same password. E4E does not allow you to define individual usernames and passwords for each member of staff.

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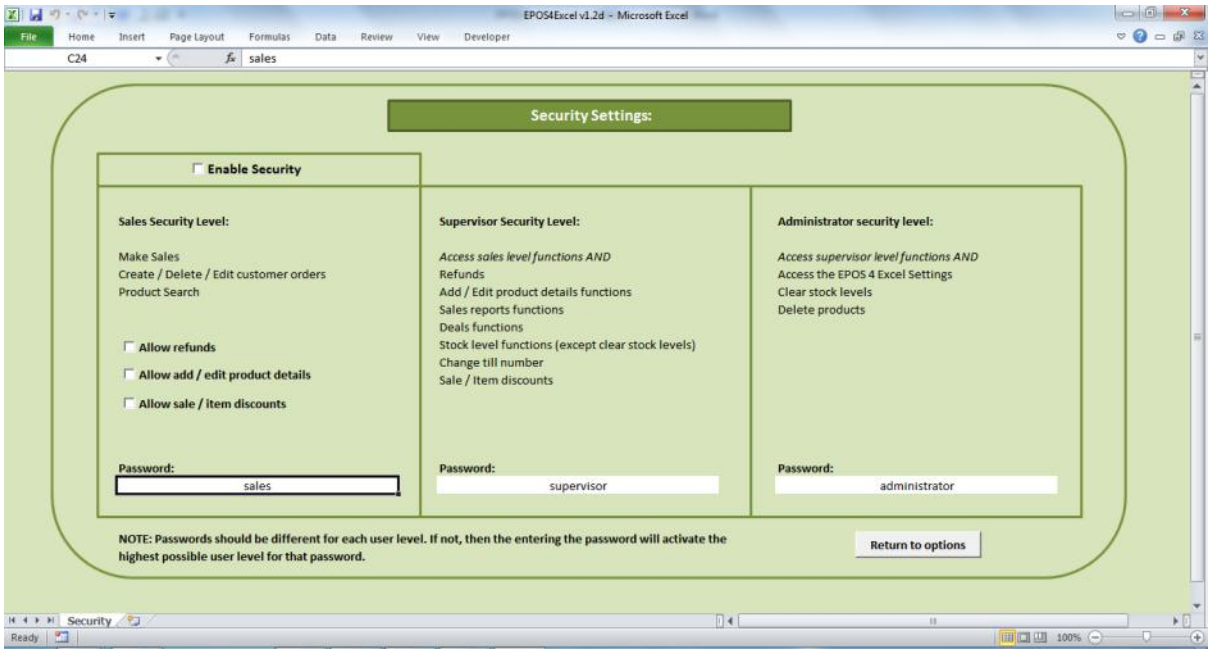
Enabling the security settings



To enable the E4E security settings:

1. Click the security settings button on the EPOS setting screen.
2. Tick the enable security box
3. Tick / untick the optional functions that are allowed for the sale security level as appropriate:

   Allow the sales assistant to complete refunds
   Allow the sales assistant to add / edit product details
   Allow the sales assistant to add discounts to a sale or change the price of an individual item (price change or percentage off an item)

   If you do not allow the sales assistant to access these functions then they will have to call a supervisor or administrator to enter their password to enable access to these functions.

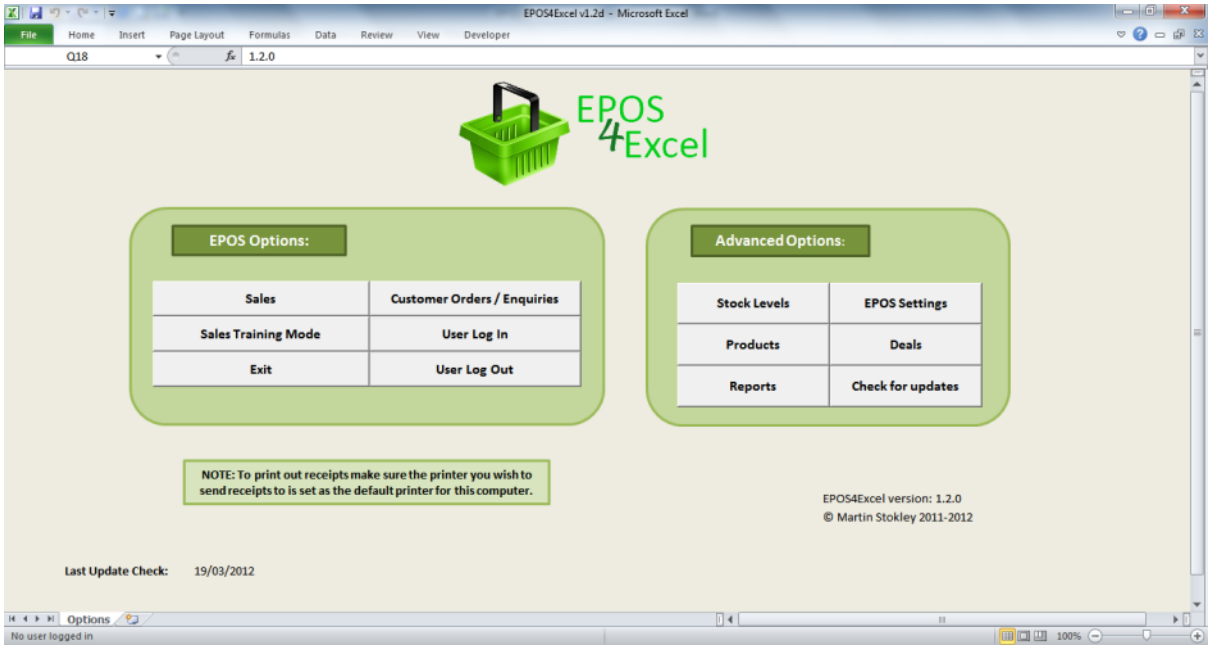
4. Change the passwords for the different security levels if you desire
5. Clicking the return to options button will save your changes.

The default passwords are sales, supervisor and administrator ie. the same as different security levels.

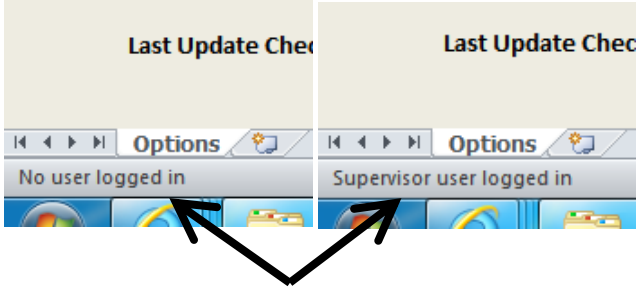
NOTE: Passwords should be different for each user level, if not, then entering the password will active the highest user level for that password. This means you can combine the supervisor and administrator security levels by making the passwords the same.

NOTE: Changing the security level settings and passwords will have to be done separately for each till running on a network unless you customise the E4E workbook and then place a new copy of it on each till.

Logging in with a security level password



After you have enabled the security settings the user log in and user log out buttons on the main EPOS options screen will be enabled. To log in click the user log in button and enter your security level password (sales, supervisor or administrator) to enable this level of access to E4E functions.



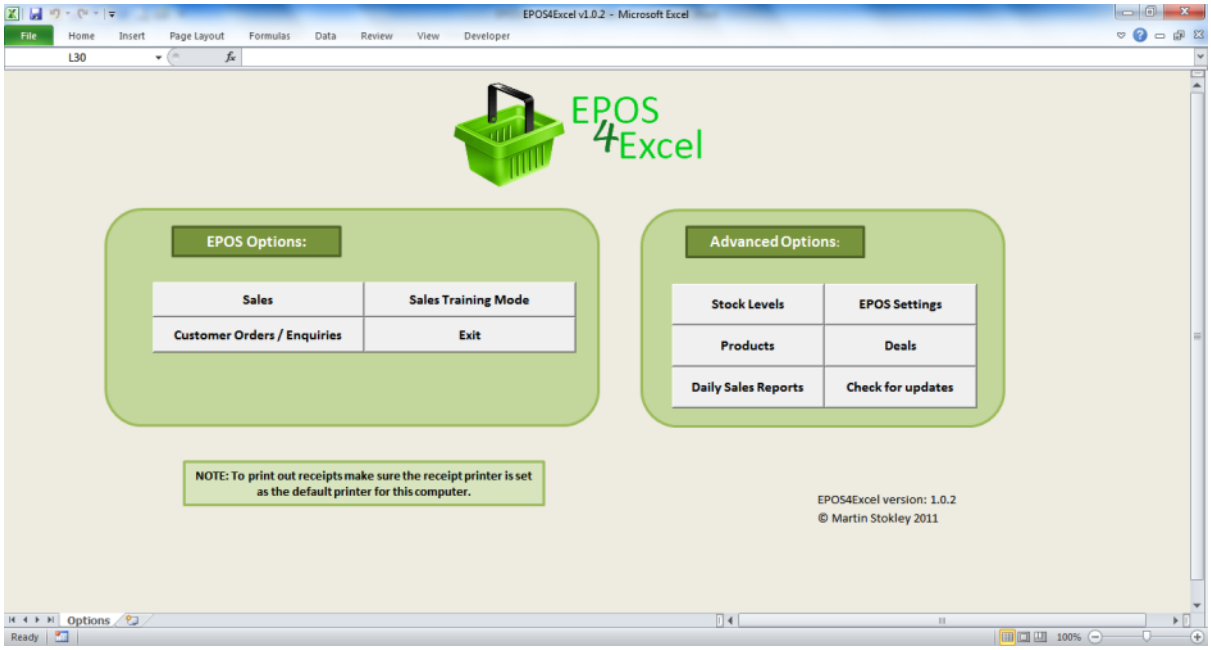
After you have logged in the Excel Status bar will tell you what level of access to the E4E functions you currently have.

If you try to access an E4E function which requires a higher level of access than the current one, you will asked to enter the relevant security level password to gain access to that function.

1. If you are on the sales screen or if you are in sales mode (eg. you accessed the product search results screen from the sales screen) and you are prompted for a password to access an E4E function, then entering a password WILL NOT result in a permanent log in for that security level. Once the function has been accessed the security level will drop back to its original level.
2. On every other screen in E4E, logging in to a security level to access a specific function will result in a permanent log in to that security level.

For details about what you can do if you forget the sales, supervisor of administrator password for a till see Appendix F

14. Checking for updates to the EPOS 4 Excel worksheet



If you are connected to the internet you can check to see if a newer version of the E4E worksheet (containing bug fixes or new features) has been released. On the main options screen click the check for updates button. E4E will now attempt to connect to the internet and download a file containing the latest E4E version number. Please be patient as this may take while. If a newer version is available you will be told to visit the E4E website (epos4excel.weebly.com) to download it.

E4E automatically warns you on start-up if you have not checked for updates for more than a month. You can turn this feature off on the EPOS settings screen if you wish.

Upgrading to a newer version of EPOS 4 Excel

To upgrade to a newer version of E4E you will need to go through the following steps:

1. Download a copy of the new version of the E4E from the website (epos4excel.weebly.com)
2. Set the file's storage directory in the new version of E4E's file settings to be the same as in the old version. E4E will then automatically pick up your product list, your receipt message, your tax classes and any deal codes you have set up
3. Manually customise the receipt template on the new version of E4E so that it looks like the template in your old version. If you have the older version of E4E and the newer version open at the same time you should be able to simply copy and paste your receipt layout.
4. In the sales data settings on the new version of E4E make sure that the sales data columns are set up as they were in your old version
5. Customise the logo on the sales screen and any background colours as per your old version of E4E
6. Make sure all other settings and options in the new version of E4E are set up as they were in your old version (eg. payment types, passwords etc.)
7. Familiarise yourself with any new features in the new version of E4E and customise as necessary
8. The new version of E4E is now set up and ready to use

15. Summary of the main EPOS 4 Excel settings / options

Sale Options

Option	Option Location	Notes
Print sales receipts	Current sale screen	Option ticked = Print Receipts
Pre-paid order	Payments window	Option ticked = E4E will ask for customer order details when sale is completed
Force user to give sales assistant name	EPOS settings screen	Option ticked = user will always have to give a sales assistant name, it cannot be left blank
Only allow selling of whole quantities	EPOS settings screen	Option ticked = user can only add whole numbers of quantities to a sale
Force user to give reason for refunds	EPOS settings screen	Option ticked = user must give a reason for any refunds in the memo box on the payments window
Screen lock password	EPOS setting screen	Click the change button to change the password
Change till number	Current sale screen	Click the button to change till number
Change current printer	Current sale screen	Click the button to change the printer which receipts will be sent to
Change sales assistant name	Current sale screen	Click the button to change the sales assistant name

Receipt Options

Option	Option Location	Notes
If current EPOS currency is NOT UK £s then include VAT in UK £s on the receipt	EPOS settings screen	Option ticked = VAT is shown on the receipt in both current EPOS currency and in UK £s (exchange rate from current EPOS currency is set on the EPOS settings screen)
Print narrow / wide receipts	Receipt Settings via EPOS settings screen	Choice of one or the other. Receipts printed according the relevant receipt template (narrow or wide)
Number of characters of item description to display on the receipt	Receipt Settings via EPOS settings screen	20 characters recommended for narrow receipts. For showing full description use a large number eg. 9999
Display item code rather than item description on the receipt	Receipt Settings via EPOS settings screen	Option ticked = show item code Option unticked = show item description
Receipt message	Receipt Settings via EPOS settings screen	Click edit receipt message button to change

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Discount Options

Option	Option Location	Notes
Define discounts reasons	Discount reasons via EPOS settings screen	Add the different reasons for sale or item discounts in the left hand column. These will be chosen on the item price change window or payments window. (NOTE: These may appear on a receipt)
Force user to give a reason for discounts	Discount reasons via EPOS settings screen	Option ticked = user will have to give a reason for a sale discount or item price change Option unticked = user can add sale discounts or item price changes without giving a reason

Security Options

Option	Option Location	Notes
Enable security	Security settings via EPOS settings screen	Restricts access to various functions of E4E
Allow sales assistant to complete refunds	Security settings via EPOS settings screen	Option ticked = sales assistant will be able to complete refunds Option unticked = supervisor or above password will need to be entered to complete refunds
Allow sales assistant to add / edit product details	Security settings via EPOS settings screen	Option ticked = sales assistant will be able to add / edit product details Option unticked = supervisor or above password will need to be entered to add / edit product details
Allow sales assistant to add sale discounts / item price changes	Security settings via EPOS settings screen	Option ticked = sales assistant will be able to add sale discounts / change item prices in a sale Option unticked = supervisor or above password will need to be entered to add a sale discount / change an item price in a sale
Security settings passwords	Security settings via EPOS settings screen	Enter new passwords in relevant boxes

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Sales Data Options

Option	Option Location	Notes
Transaction number prefix	Sales data settings via the EPOS settings screen	Sets the prefix for sale transaction numbers in the sales data (see section 12 of this manual for more details)
Save the sales data in a single file rather than a separate file for each till	Sales data settings via the EPOS settings screen	Option ticked = sales data from all tills will be saved in a single file when using networked tills Option unticked = sales data for each till will be save in different files when using networked tills
Create sales data back up files	Sales data settings via the EPOS settings screen	Option ticked = sales data back files are created Option unticked = sales data back up files are NOT created
Sales layout	Sales data settings via the EPOS settings screen	See section 12 of this manual for more details
Record nominal code rather than payment type in the sales data	EPOS setting screen	Option ticked = nominal code rather than payment type (in words) is recorded as the payment method in the sales data

Start Up Options

Option	Option Location	Notes
Show license screen at start up	EPOS settings screen	Option ticked = license screen is shown when the E4E worksheet first loads
If user has not checked for updates for more than a month then prompt at start up	EPOS settings screen	Option ticked = user will be prompted to check for updates to the E4E worksheet if they have not done so in the last month

Currency and Payment Options

Option	Option Location	Notes
Define payment types / nominal codes	EPOS settings screen	Payment type 1 will always be cash. Payment types 2 – 4 can be any word(s) describing a payment type.
Current EPOS currency	EPOS settings screen	Enter the currency symbol in the relevant box and make sure the product list prices are in this currency

Product Options

Option	Option Location	Notes
Product description 2 label	EPOS settings screen	Enter label in the relevant box. This will appear in the product search window / edit product details screen etc.
Product description 3 label	EPOS settings screen	Enter label in the relevant box. This will appear in the product search window / edit product details screen etc.

File Settings

Option	Option Location	Notes
Change the location of the E4E file storage location	File settings via EPOS settings screen	Click the browse button to change the location of the file storage folder

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Appendix A – Using EPOS 4 Excel with multiple tills on a network

Why use a network?

To connect multiple tills together over a network all you need is a network drive that all tills can store data on. What are the benefits of networking multiple tills together?

- You can update the price list once from a single till and it will be updated on all tills automatically.
- You can have an accurate list of stock based on what all tills have individually sold
- You can keep all customer orders / enquiries stored in one place no matter what till they are entered on and at the end of the day this file could be emailed back to the main company office for processing.
- You can keep the sales data from every till in one place, so it is easy to back the data up.

Example of simple network for use with EPOS 4 Excel

E4E has been tested on a simple network using a NAS (Network Attached Storage) drive with the following equipment:

1. A Western Digital 'My Book Live' NAS drive
2. A gigabit router – a gigabit router enables to network to run at the fastest possible speed
3. 5-port gigabit network switches to allow you to connect as many tills as you need to the network
4. Enough network cables to connect all the equipment together

E4E has currently been tested in a setting with up to six tills networked together with no problems. It is unknown how many tills could successfully work together before the network becomes overloaded, however E4E allows you to assign till numbers between 1 and 99.

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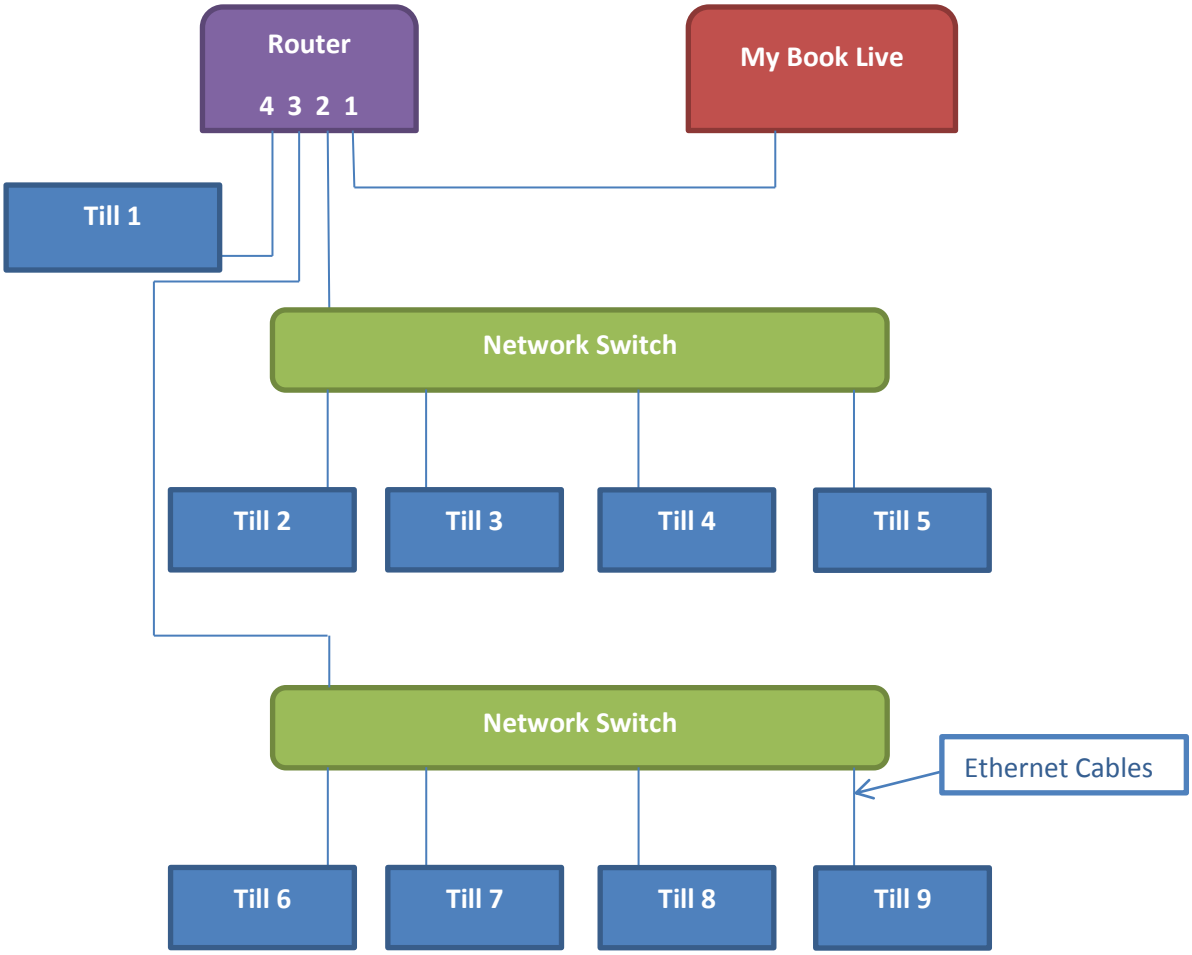
The following diagram shows the basic layout of the network under which E4E has been tested:



Each till consists of a laptop, USB barcode scanner and USB printer.

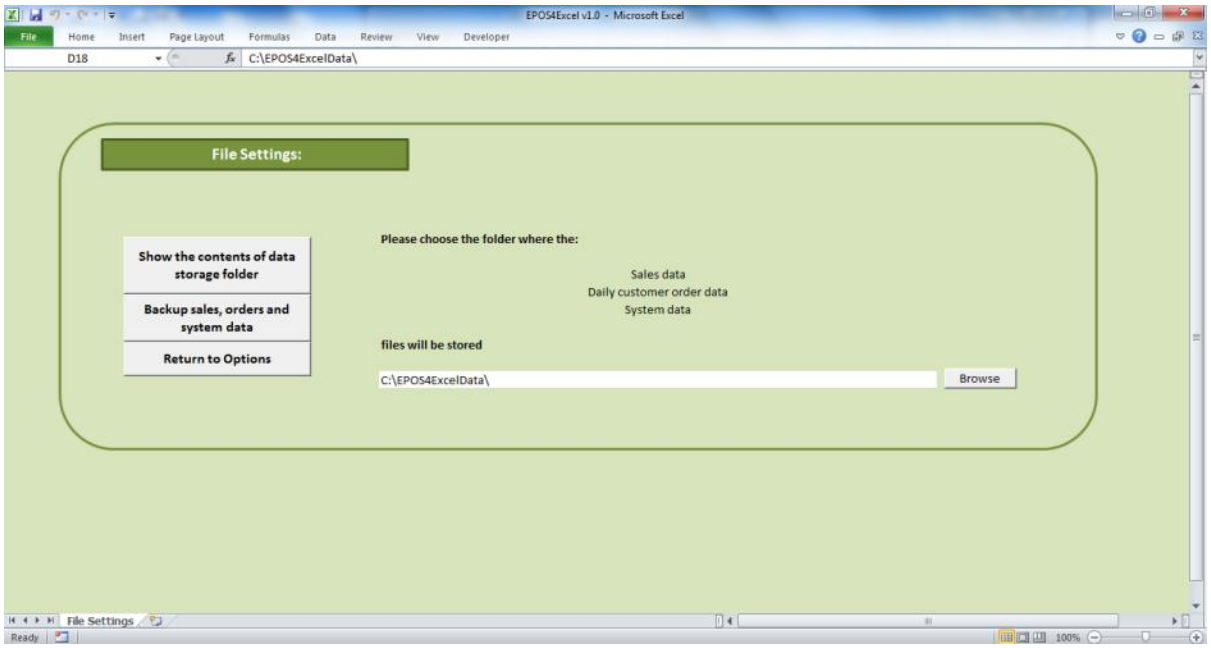
- If you have 3 or less tills connected to the network you do not need to worry about connecting the network switches. In this case you can connect the tills directly to ports 2-4 on the router.
- If you need 4-6 tills you only need to connect one network switch to the router.
- If you need 7 or more tills you will need to connect both network switches to the router.
- The maximum number of tills you can network together using this equipment is 9.

The following tips apply if you are seeking to set up this example network:

1. You will need to set up 'My Book Live' so it can be accessed on each individual till. Use the software CD that came with 'My Book Live' to install it on each till if this has not been done before. Follow the on screen instructions for installation and make sure you choose the same drive letter for 'My Book Live' when you install it on each till.
2. You need to set up the network and make sure the router, my book live and the network switches are powered on and all the cables are connected before you install the software.
3. If you have previously installed the 'My Book Live' software and you are having problems with the computer recognising 'My Book Live' then try switching the computer off and restarting it whilst it is connected to the switched on network.
4. You can always check if the 'My Book Live' has already been installed by going to My Computer and checking if you can see the network hard drive.

Setting up EPOS 4 Excel for use on a network

You need to choose the folder where the EPOS 4 Excel sales data, customer order data and the system data files will be stored to be on the network. To choose / change the location of the storage folder:



On the file settings screen (found via the EPOS settings screen) click the 'browse' button next to the folder name and change the storage folder location as appropriate. You will need to repeat this process on every instance of E4E running on the network (ie. on every till) so that they all point to the same folder.

E4E is now set up for use on a network. When you import products etc. these will now be accessible to every instance of E4E running on the network.

Appendix B – The full software license for the EPOS 4 Excel workbook

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Appendix C – Calculations used in the EPOS 4 Excel source code

Sales promotions such as '3 for 2' offers are not as simple as people sometimes think (eg. just setting one item's price to zero) as you have to take into account the VAT due on the sale items. The HMRC has specific VAT rules (in the UK) for promotions on mixed VAT sales.[1] The following calculations outline how the E4E program calculates the effect of promotions on item prices and item VAT. They enable you work out the equivalent individual item prices in a promotions after deals and discounts have been applied such that the VAT charged on individual items is correct.

NOTE: These calculations have been checked by an accountant to check that they calculate the VAT correctly for mixed rate VAT products, however use them at your own risk. No guarantee is given that they are correct and if you wish to use them in your own programs you are advised to check that they continue to accurately reflect UK VAT rules before use. No liability will be accepted if they are found to be wrong!

VAT fraction calculation

How can we calculate the VAT amount from the items gross price (including VAT) and the VAT fraction?

N = Net Price; G= Gross Price; V = VAT Rate in %; F = VAT Fraction

Gross Price = Net Price + VAT amount which implies

$G = N + N \times \frac{V}{100} = N\frac{100+V}{100}$ (1)

$VAT\ amount = G - N = G \times F$ which implies

$G - G \times F = N$ (2)

Substituting (1) into (2)

$$N\frac{100+V}{100} - N = N\frac{100+V}{100}F$$

$$\frac{100+V}{100} - 1 = \frac{100+V}{100}F$$

$$\frac{100+V}{100} - \frac{100}{100} = \frac{100+V}{100}F$$

$$\frac{V}{100} = F\frac{100+V}{100}$$

$$F = \frac{V}{100+V}$$

If V =0 (non-vatable item) then N=G

Using the VAT fraction we can therefore calculate the net item price from the gross item price and the amount of VAT due on the item.

[1] See http://www.hmrc.gov.uk/vat/managing/charging/discounts-etc.htm, Accessed 19th October 2011

Deals and discounts

In E4E we distinguish between deals and discounts:

- **Discounts** – are added by *the sales assistant* during a sale. They can be discounts on individual items (percentage off an item price / item price change) or discounts off the whole sale (percentage discount off the whole sale / monetary discount off the whole sale)
- **Deals** – are added automatically *by E4E* when a specific group of items appear in the sale basket (ie. buy X for Y / by X for £Y) and only affect the specific items in the deal

% Discount off the whole sale

How do we work out the effect on individual item prices of a percentage discount off the whole sale?

A percentage discount is equivalent to the multiplying the sale price by $D_{\%}$ where

$$D_{\%} = \frac{100 - \%\ Discount}{100}$$

S = total sale amount without discount; S_i = individual item price without discount

$$Sale\ total\ after\ discount = S \times \frac{100 - \%\ Discount}{100} = \sum S_i \times \frac{100 - \%\ Discount}{100}$$

Multiplying each item price by $D_{\%}$ means we find the actual price each item was sold for. We can then calculate the VAT due on the discounted individual items, using these altered item prices, from the VAT fraction method detailed above.

Converting a monetary discount off the whole sale to an equivalent % discount

How do we work out the effect on individual item prices of a monetary discount off the whole sale such that the VAT can be calculated correctly for a sale which contains products with different VAT rates?

S = total sale amount without discount; S_i = individual item price without discount; $D_{£}$ = monetary discount (amount in pounds to discount sale by)

We can consider a monetary discount as equivalent to a percentage discount:

$$D_{\%} \times S = S - D_{£}$$ (see % discount section above for definition of $D_{\%}$)

Where $$S = \sum S_i$$ (sum of the individual item prices)

The equivalent percentage discount to the monetary discount is:

$$D_{\%} = \frac{S - D_{£}}{S}$$

$$= \frac{\sum S_i - D_{£}}{\sum S_i}$$

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According to HMRC VAT rules for mixed VAT products the monetary discount of a sale must be apportioned amongst the items in the sale in proportion to the original item prices. After this apportionment we can calculate the VAT due on each item using the VAT fraction method detail above.

Item price after the appropriate proportion of the pound discount is applied:

$$S_i - D_{£,i} = S_i - \frac{S_i}{S} D_£$$

ie. the proportion of the monetary discount applicable to an individual item is:

$$D_{£,i} = \frac{S_i}{S} D_£$$

Total price after monetary discount is the sum of the individual time prices less their portion of the monetary discount:

$$S - D_£ = \sum(S_i - D_{£,i}) = \sum(S_i - \tfrac{S_i}{S} D_£) = \sum S_i \times \left(1 - \tfrac{D_£}{S}\right) = \sum S_i \times \left(\tfrac{S - D_£}{S}\right) \qquad (3)$$

But above we had

$$S - D_£ = D_{\%} \times S = \sum S_i \times D_{\%} \qquad (4)$$

Comparing (3) and (4) we again find that

$$D_{\%} = \frac{S - D_£}{S} \qquad (5)$$

Therefore apportioning the monetary discount across the items of the sale in proportion to the original item price is equivalent to considering a monetary discount as a percentage discount on each individual item price using equation (5). If you multiply each item price by (5) the monetary discount will be apportioned amongst the items correctly according to HMRC guidelines for mixed VAT products. This means we find the actual price each item was effectively sold for. We can then calculate the VAT due on the individual items using these altered item prices and the VAT fraction method outlined above.

Combining monetary discounts and percentage discounts off the whole sale

When there is both a percentage discount off the sale AND a monetary discount off the sale, we take the monetary discount off first before applying the percentage discount ie.

$$Price\ after\ discount = apply\ percentage\ discount\ \times (original\ price - monetary\ discount)$$

Doing it this way works in the favour of the retailer rather than the customer.

If we write a monetary discount as an equivalent percentage then we get:

$$\begin{aligned} &Price\ after\ discount \\ &\qquad = apply\ percentage\ discount \\ &\qquad \times apply\ monetary\ discount\ as\ an\ equivalent\ percentage\ discount \\ &\qquad \times original\ price \end{aligned}$$

This means we can combine simply a percentage discount and a monetary discount with the monetary discount being apportioned amongst the item prices appropriately according to HMRC guidelines for mixed VAT products.

Deals: Buy x items for £y

How do we work out the effect on individual item prices of a buy x items for £y deal such that the VAT can be calculated correctly for a sale which contains products with different VAT rates?

As a deal only effects the items included in the deal and not any other items in the sale basket, first we assume for our calculation purposes that we only have the x items that are in the deal.

I_x = Original item price; I = Sum of original deal item prices; $D_£$ is the monetary discount we need to add to make the deal items cost = £y

$$I = \sum I_x \qquad \text{(Sum of deal item original prices)}$$

$$y = I - D_£ = \sum I_x - D_£ \qquad \text{(Total of items in the deal after deal is applied)}$$

According to HMRC guidelines for mixed VAT products we need to apportion the deal total (£y) amongst the items in the deal in proportion to their original item prices.

$$Price\ of\ item\ x\ after\ apportioning = y \times \frac{I_x}{I} = (I - D_£) \times \frac{I_x}{I} = I_x - D_£ \frac{I_x}{I}$$

Apportioning the deal total across the items in the deal is therefore equivalent to applying a monetary discount of $D_£$ to the x items. Simplifying this further:

$$Price\ of\ item\ x\ after\ apportioning = I_x - D_£ \frac{I_x}{I} = I_x \left(\frac{I - D_£}{I}\right)$$

$$multiplier = \frac{I - D_£}{I} \qquad (6)$$

We can therefore consider that applying a deal to make x items cost £y is equivalent to multiplying the price of each individual item in the deal by (6). Doing this will apportion the deal price (£y) amongst the items in the deal according to HMRC rules for mixed VAT products. We can then calculate the VAT due on the individual items by using these altered item prices and the VAT fraction method outlined above.

Deals: Buy x get cheapest y free

How do we work out the effect on the individual item prices of a buy x items get cheapest y free deal such that the VAT can be calculated correctly for a sale which contains products with different VAT rates?

As a deal only effects the items included in the deal and not any other items in the sale basket, first we assume for our calculation purposes that we only have the x items that are in the deal.

I_x = Original item prices for the x items; I_y = item prices of the y cheapest items; I = Sum of original item prices; $D_£$ is the monetary discount we need to take off to effectively make the y cheapest free ie. the sum of the prices of the y cheapest items.

$$I = \sum I_x \qquad \text{(sum of all item prices)}$$

$$D_£ = \sum I_y \qquad \text{(sum of the cheapest y item prices)}$$

$$I_D = I - D_{£} = \sum I_x - \sum I_y \qquad \text{(price of the items after deal has been applied)}$$

According to HMRC guidelines for mixed VAT products we need to apportion the monetary discount needed to buy x and get the y cheapest free amongst the items in the deal in proportion to the original item prices.

$$Price\ of\ item\ x\ after\ apportioning = I_x - D_{£}\frac{I_x}{I}$$

$$I_D = \sum (I_x - D_{£}\frac{I_x}{I})$$

$$I_D = \sum I_x \left(\frac{I - D_{£}}{I}\right) = \sum I_x \left(\frac{I - \sum I_y}{I}\right)$$

$$multiplier = \left(\frac{I - \sum I_y}{I}\right) \qquad (7)$$

Therefore the monetary discount we need to apply to each item price in the deal to give 'x items with the cheapest y free' price is equivalent to multiplying each individual item price in the deal by (7). The item prices will then be apportioned appropriately according to HMRC rules for mixed VAT products.

Multiplying each item price by (7) means we find the actual price each item was sold for. We can then calculate the VAT due on the individual items in the deal by using these altered item prices and the VAT fraction method outlined above.

Procedure for applying deals and discounts:

For a complex sale basket we need to combine deals and discounts off the whole sale together. To work out the final effect on the item prices in the whole sale after all discounts and deals have been applied use the following procedure. We can then calculate the VAT due on the individual items by using these altered item prices and the VAT fraction method outlined above.

1) **Apply any deals due on the sale basket first**

   Calculate the effect of any deals on individual items prices for each occurrence of a specific deal in the sale basket. ie. Sale basket contains numerous items. X of these items make up an occurrence of a specific deal eg. buy x for 2, buy x for £1

   a) Work out what the total value of the X items in the deal ONLY should have been
   b) Work out what the amount of discount due on these X items
   c) According to which deal you are applying work out the multiplier calculated above (buy X for £Y OR buy X for Y)
   d) Apply that multiplier to the prices for the X items in the deal ONLY.
   e) Repeat this procedure for any other occurrences of deals in the basket ie. if you have two buy 1 get 1 free deals in the basket you go through the procedure for the first 2 items that make up the first occurrence of the buy 1 get 1 free deal and then you go through the procedure for the second 2 items that make up the second occurrence of the buy 1 get 1 free deal

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You have now calculated how the item prices have been affected by the deals applied to the sale.

2) Next apply any monetary discount that is due off the whole sale basket

Make sure any deals have been applied to the item prices first. Now the monetary discount of the whole sale is applied to EVERY item in sale basket as follows:

a) Work out sale total after deals have been applied
b) Work out what sale total will be after the additional monetary discount has been added to the whole sale
c) Work out b) as percentage of a)
d) Apply that additional % across all item prices (after deals have been applied) in the sale

3) Lastly apply any percentage discount that is due off the whole sale basket

Make sure any deals and any monetary discounts have been applied to the item prices first. Lastly apply any additional percentage discount off the whole sale to EVERY item in the sale basket.

This procedure enables us to combine a complex combination of deals and discounts in a sale basket. It calculates the effect on item prices such that you can calculate the VAT due on the sale. The item prices are altered in such a way that the VAT is apportioned according the HMRC rules on mixed VAT products. The customer should only see the original item prices + details of any discount amounts on the receipt. To accurately calculate the VAT on the sale we calculate the VAT due on the altered item prices (after deals, monetary and percentage discounts have been applied) and not the original item prices. This correct VAT (after deals / discounts) is detailed for the customer on their receipt.

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Appendix D – Description of the system data files created by EPOS 4 Excel

These files are used by E4E to store essential information and can be found in the systemdata folder in the place where you store the E4E data (see E4E file settings for more details):

Productdata.xlsx = An Excel workbook containing a list of imported / added products. It also contains a copy of the list of tax codes / classes and corresponding % VAT rates from the tax settings screen. The file layout is as follows:

Column A:	SKU / Item Code
Column B:	Item Description
Column C:	Gross Price (including VAT)
Column D:	Item tax class code
Column E:	A deal code if the item is linked to a specific deal
Column F:	Quantity of the item delivered
Column G:	Quantity of the item in stock
Column H:	Quantity of the item sold
Column I:	Item Description 2
Column J:	Item Description 3
Column L:	Tax class code
Column M:	% VAT rate which corresponds to the tax class code

NOTE: Row 1 contains column headings

Recieptmessage.txt = A text file containing the customisable message that appears at the end receipts

Dealsdata.xlsx = An Excel worksheet containing a copy of the data from the deal code setup screen

Column A:	Deal name (max 20 characters)
Column B:	Buy any X and get the Y cheapest free deal code
Column C:	Buy any X and get for £Y
Column D:	Buy X different for £Y
Column E:	X
Column F:	Y

NOTE: Each individual deal is represented by a row on the worksheet. No column headings

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Appendix E – Accessing the visual basic for applications (VBA) source code for EPOS 4 Excel

It is possible to access the source code for EPOS 4 Excel using the developer functions built into Excel. You will need to enter a password to access the VBA source code. The password is:

EPOS4excel (password is case sensitive)

Only those who have knowledge of programming or VBA should attempt to alter this code.

Why have the source code password protected? From experience in the development of E4E, on the rare occasion that E4E has crashed due to a bug, if the source code is not password protected then the user who knows nothing about VBA can accidently make changes to the source code by choosing to 'debug' it. These accidental changes in turn can cause E4E to fail completely! Having the source code password protected prevents this error happening whilst still allowing advanced users to access the source code!

To access the VBA source code you will need to show the developer tools on the Excel ribbon – see http://www.addintools.com/documents/excel/how-to-add-developer-tab.html

On the developer tools ribbon then click the visual basic button

When the visual basic environment appears, if you double click on 'module 1' (left hand side window) you will then be asked for the password for accessing the source code.

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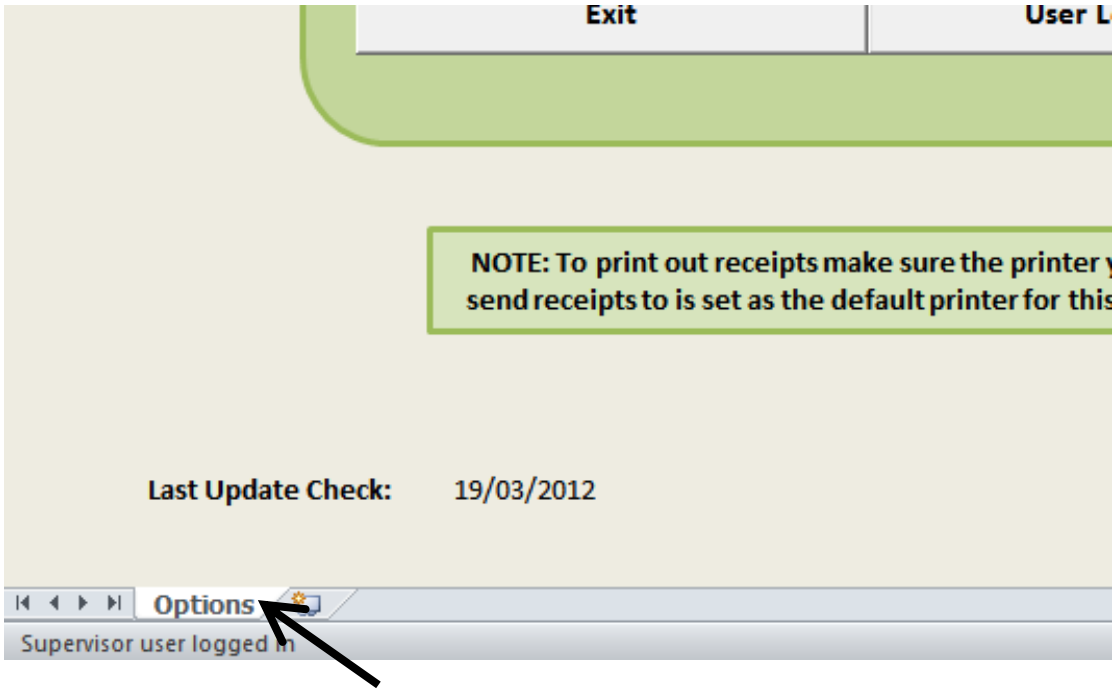
Appendix F – Retrieving forgotten security passwords

If the security settings in E4E are enabled and you forget the sales, supervisor and administrator passwords for E4E you can retrieve them in the following way.



1. On the main EPOS options screen right click on the options tab at the bottom left of the screen and choose unhide from the menu
2. From the pop up box click on the security worksheet and click ok.
3. The security setting screen will appear and you will be able to see / alter the security passwords.
4. Click the return to options button to return to the options screen.

Appendix G – Troubleshooting

In this appendix we will detail some solutions to problems that people have had with EPOS 4 Excel:

Downloading EPOS 4 Excel from epos4excel.weebly.com – Internet Explorer Users

Internet Explorer sometimes downloads an Excel file and changes the file extension to .zip and you won't be able to open the file in Excel. If this happens to then you will need to manually rename the file from epos4excel_v1.2.zip to epos4excel_v1.2.xlsm
(see http://www.mediacollege.com/microsoft/windows/extension-change.html for more details about changing the file extension)

Compile Error in Hidden Module 1

Possible solution: This error can happen if Excel is not set up right. See Appendix E for how to access the VBA source code. When you are at the screen showing the source code (the VBA development environment) for E4E:

1. Go to the Tools menu, choose References.
2. Make sure that Microsoft Office 14.00 Object Library is ticked (of the highest number of the Microsoft Office Object is tick if you do not have 14.00)
3. Untick any items that have the word 'MISSING' next to them.
4. Click ok.
5. Close the VBA source code / development environment window.
6. Save the worksheet and close Excel.
7. Re-open the worksheet and hopefully the error will be solved

Runtime Error: 1004 – Method Save of Object Workbook Failed

Possible solution: This can happen if Excel crashes and then recovers your workbook. If you then work on this recovered workbook any changes you make to the E4E will not be able to be save and it will cause this error. You can either:

1. Go to the Excel file menu and choose 'save as'. Then save your workbook either overwriting the old workbook or with a new filename. This should hopefully rectify the problem
2. **OR** close Excel and re-open the original E4E workbook that you were working on before Excel crashed. NOTE: This may mean you lose any changes you made to the E4E workbook.

Excel Crashed and has recovered the E4E workbook

It is best not to use any recovered workbooks as this can lead to other errors (such as the save error directly above). Close down any recovered workbooks, close Excel and then start again with the original E4E worksheet you were working on before Excel crashed.

Repairing your Excel installation

Very occasionally repairing your Excel installation can help resolve unexplained errors:

You can repair your Office 2010 programs by doing the following:

1. Click the Windows **Start** button, then click **Control Panel**.
2. Click **Programs and Features**.
3. Click the Office 2010 program that you want to repair, then click **Change**.

4. Click **Repair**, then click **Continue**. You might need to restart your computer after the repair is complete.

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Appendix H – EPOS 4 Excel Version History

EPOS 4 Excel v1.2 (24th April 2012)

New features / changes:

1) Added the ability to choose a specific date for till reconciliation totals, rather than just being able to calculate till reconciliation totals for today. Also added total VAT for the till on the chosen date to the reconciliation totals.
2) Changed the way you alter individual item prices in a sale - Double click on an item line in the sale to bring up a box with item fuller details. This box has the option to discount that item's price by a percentage between 0% and 100%, as well as enabling you to change individual item price. Details of the discount / price change are recorded in a new field in the sales data (Item Price Change/Disc)
3) Added optional user security levels (sales, supervisor and administrator) with each one having a higher amount of access to E4E functions. This enables you to limit refunds, adding / editing products to a supervisor etc. Deleting products and clearing the current stock levels are limited to administrators.
4) If security levels are enabled then screen lock on the sales screen can also be removed using sales, supervisor and administrator passwords
5) Added a new sales data field = Sale Deals/Discounts (same text that appears on the receipt which details sale deals / discounts)
Added a new sales data field = Item Product List Price
Added a new sales data field = Item Description 2
Added a new sales data field = Item Description 3
Added a new sales data field = Item Price Change/Discount (details changes to individual item prices by sales assistants)
Also Column AB in the sales data is now no longer fixed.
6) Changed sale data column headings to reflect deal/discount distinctions (NOTE: Gross item price reflects the item's price after any individual item price changes / percentage discounts are made, not the price of the item on the product list)
7) Sale monetary and percentage discounts are now added when you take payment and you can specify reasons. The reasons are user specified under the EPOS settings screen
8) Added option to force user to give a reason for a discount
9) Current sale screen now shows first 25 characters of item description
10) Added new reports:
1) Produce a list of all products sold between specific dates
2) Produce a list of refunds given between specific dates
3) Produce a list of total tax by date
4) Produce a list of tax by transaction
5) Produce a list of products refunded between specific dates
11) Added a print button to the product search results screen (this prints out to a user chosen printer which is attached to the computer, but not to a receipt printer)
12) Added the option to force the user to give reasons for refunds
13) Made the control buttons at the top of the product search results static so when you scroll down so they can always be seen
14) Added two extra description fields for products
15) Added a button to enable the user to change the active printer on the current sale screen and the receipt setting screen
16) When you change the folder for the storage location of the E4E data in the file settings you are now asked if you wish to copy existing sales / orders data AND existing system data (product list, receipt message, deals list) across to new the new storage location
17) Added option to automatically create back-ups (*.bak) of the sales data files (found on sales data settings screen)
18) You can now use the keyboard shortcut 'Alt y' on the sales screen to 'click' the payments button

19) Sale sub-total (ie. before sale deals and discounts are added) is now displayed on the current sale screen

Fixes:
1) Fixed a bug where automatic prompt of checking for updates did not wait at least 31 days between update checks
2) Fixed a bug that occasionally caused an error when trying to export the current sales levels to a file
3) Fixed a bug where when you cancel changing the sales assistant name it deleted the old assistant name anyway
4) Fixed a bug where sometimes when you deleted a product from the product list it also deleted a tax class and corresponding VAT rate
5) Problems can be caused in E4E if you try to add / import a product with an item code of '0' (zero). Fixed the code so you can no longer add / import a product with item code of '0' (zero)
6) Fixed a bug where for refunds the sale total VAT in the sales data was a positive amount and should have been negative.
7) Fixed a bug where if blank rows were left on the current sale they weren't always removed when the payments button was clicked
8) Fixed a bug with the buy X for £Y deal where E4E did not recognise if the total cost of the items in the deal was less than £Y. The deal was still applied therefore increasing the item prices so the total cost of the items in the deal to £Y. The deal is now no longer applied if the total cost of items in the deal is less than £Y.
9) Fixed a bug which could cause errors when taking payments if numbers were formatted as '0,00' rather than '0.00'. Numbers can now be formatted in both ways.

EPOS 4 Excel v1.1 (26th January 2012)

New features:
1) Added the ability to check for updates to the EPOS4Excel worksheet over the internet
2) Added option on EPOS settings screen to automatically prompt user to check for updates at start up if not done so in the last month
3) Added option to turn off showing the license screen at start up
4) Added a button on the sales screen to allow user to change the till number
5) Added the ability to print wide receipts (for ordinary printers) as well as narrow receipts (for receipt printers)

Fixes:
1) Fixed a bug with the 'Buy X different for £Y' deal which meant that EPOS4Excel would sometimes apply the deal even if there were X items but not X DIFFERENT items
2) Fixed a bug where the end of day till reconciliation totals did not show totals for payment type 5
3) Fixed a bug where if you used E4E to make sales continuously over a period that spanned two dates then E4E did not update the date on the sales screen or start a new sales data file

EPOS 4 Excel v1.0.1 (14th December 2011)

Fixes:
1) Fixed a bug which meant that monetary and percentage discounts were not being calculated properly

EPOS 4 Excel v1.0 (8th November 2011)