

Sage 300 Intelligence Reporting Creating a Template for your Report that Uses Dynamic Account Ranges

25 06 2015

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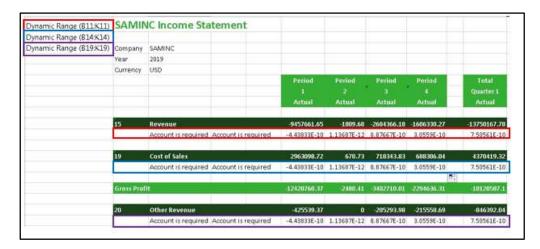
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About Dynamic Account Ranges

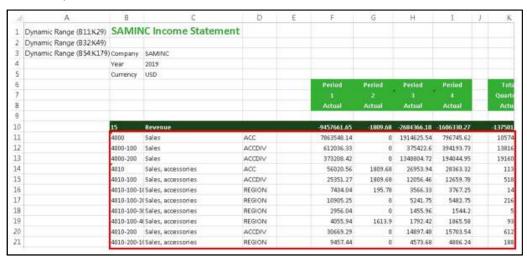
Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Sage Intelligence Reporting will automatically refresh the range to ensure it contains the latest general ledger accounts listed on separate rows in your layout. Dynamic Account Ranges can be found on the **tools** tab of the task pane.

An advanced knowledge of Microsoft Excel formulas as well as accounting knowledge is recommended to use dynamic account ranges.

To set up dynamic account ranges, you will need to first <u>create a template</u> and <u>set up the dynamic ranges</u>, and then <u>refresh</u> to automatically populate all of the latest general ledger accounts.







There are 3 ways you could set up the Dynamic Ranges in the active sheet:

- Using the **Set Up** Button on the **Tools** tab in the task pane.
- Typing the Dynamic Range into the active sheet.
- <u>Using the Excel Functions option</u>.

Note: You can only add or refresh Dynamic Ranges in the active sheet.

Creating a Template for your Report that Uses Dynamic Account Ranges

Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Sage Intelligence Reporting will automatically refresh the range to ensure it contains the latest GL accounts listed on separate rows in your layout.

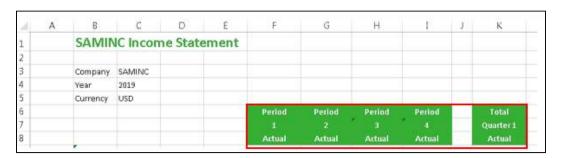
Note: You can only add or refresh Dynamic Ranges in the active sheet.

Before setting up dynamic account ranges you must create the report layout (template) in Microsoft Excel of what you'd like your report to look like. The following is an example of an income statement for the first quarter of the financial year.

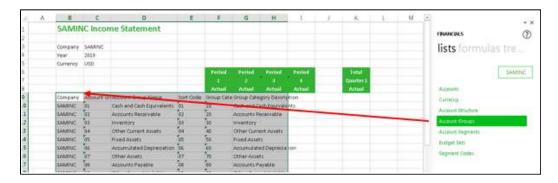
1. Starting in cell **B1**, set-up your spreadsheet with a heading and the filters you'd like to use.

	А	В	С	D	Е	F
1		SAMINC Income Statement				
2						
3		Company	SAMINC			
4		Year	2019			
5		Currency	USD			

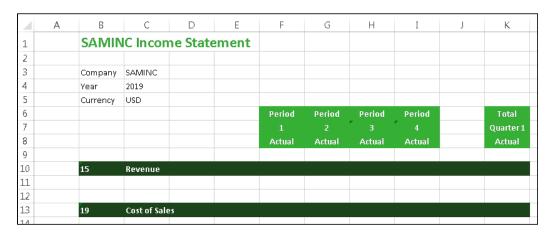
2. Starting in cell F6:F8, create column headings for the data you'd like to report on.



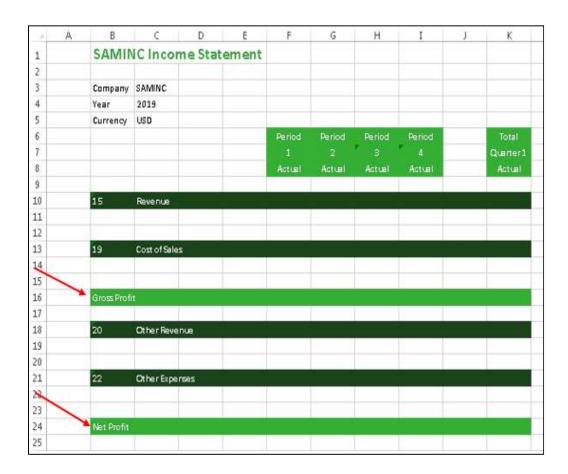
3. Drag and drop the **Account Groups** from the **Lists** group into cell **B9**. You will use this list to help create your report.



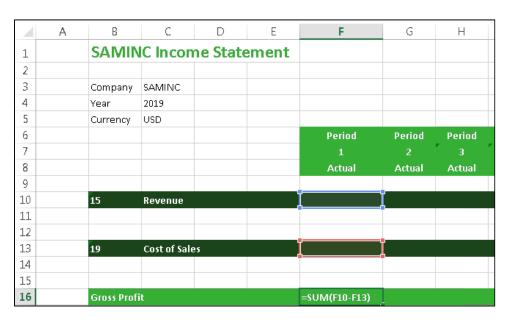
- 4. Clear the headings and the balance sheet rows not required for this report.
- 5. Format the account type rows as headings, leaving an extra row where the list of accounts will later be populated.



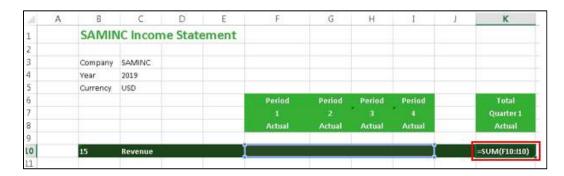
6. Create Subtotal rows if required.



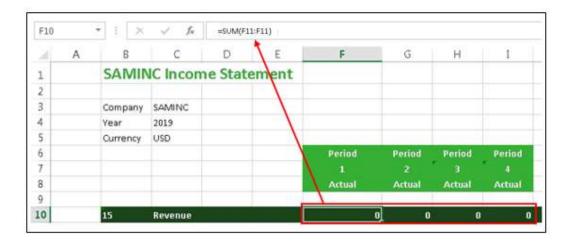
7. Use the Microsoft Excel **=Sum** function in the subtotal rows.



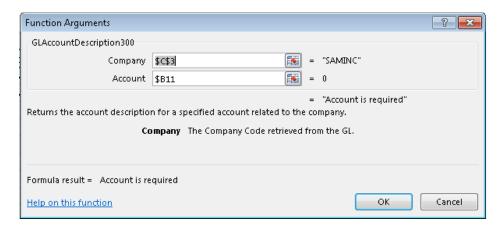
8. Copy the formulas to all of the rows and columns which need subtotalling.



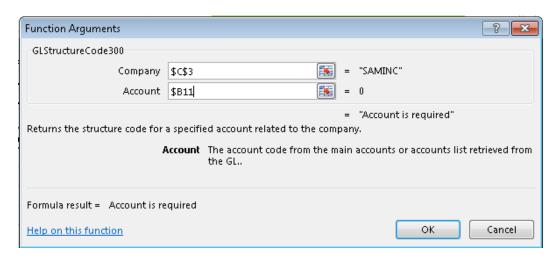
9. When adding subtotals to, what will be, all of the account rows beneath it, ensure that you use ranges so that when the rows are populated, the subtotals include all of the rows.



- 10. Now we are going to add the template row where our accounts are going to be listed. We need to add this row so Sage Intelligence Reporting knows what details we want to see for each account. Click cell C11 and add the Account Description formula and then cell D11 and add the Structure Code formula.
- 11. The **Account Description** formula is a new formula found under Formulas in the Task Pane.
- 12. Edit the formula to connect to the correct formula arguments. Cell **B11** is where our account number will be listed.

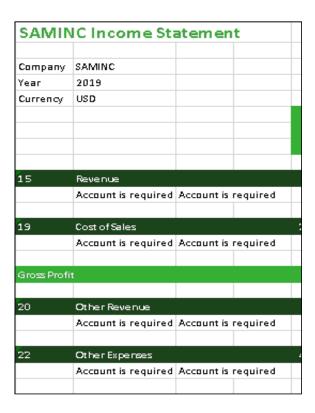


- 13. The **Structure Code** formula is a new formula found under Formulas in the Task Pane.
- 14. Edit the formula to connect to the correct formula arguments. Cell **B11** is where our account number will be listed.



Tip: Change to absolute cell referencing where the cells remain constant. Refer to the topic **Using Relative or Absolute Cell Referencing**.

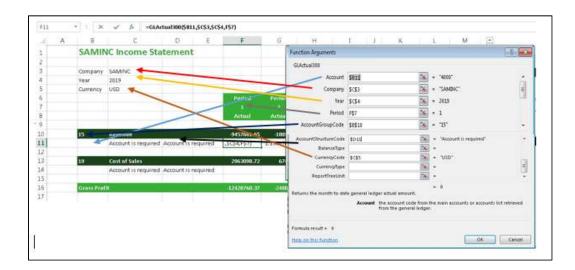
15. Copy the formula to the other rows requiring the same change. Don't worry about the *Account is required* error. This will be resolved when the account rows are populated later.



16. Drag and Drop the **Actual** formula onto your spreadsheet in the first row under the first period.



17. Change the **Actual** formula to link to the correct Account, Year, Period, Company and Account Type. You can do this by clicking the **fx** button and making the changes.



Tip: Change to absolute cell referencing where the cells remain constant. Refer to the topic **Using Relative or Absolute Cell Referencing**.

Tip: Some data may be stored as a negative number which causes your reports to reflect data incorrectly. Add a - (minus) to the beginning of the formula name to correct this. Drag the fill handle down to copy the formula to other rows requiring the same change.

- 18. Copy the formula to other cells requiring the same formula.
- 19. Now that you have set up your template row, your report template is ready for you to set up your dynamic account ranges. Before you continue, save your workbook in case you have made a mistake and have to revert back to the template to make a change.

Setting Up Dynamic Account Ranges

Setting Up Dynamic Account Ranges using the Take Pane functions

Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Sage Intelligence Reporting will automatically refresh the range to ensure it contains the latest GL accounts listed on separate rows in your layout. Dynamic Account Ranges can be found on the **tools** tab of the task pane.

Note: You can only add Dynamic Ranges to the active sheet.

Before setting up dynamic account ranges you must <u>create the template in Microsoft Excel</u> for dynamic ranges.

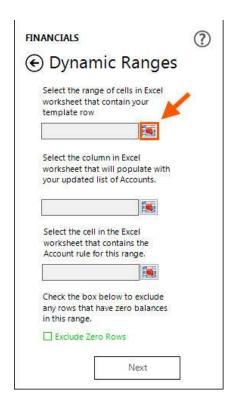
Using the Set Up Button on the tools tab in the task pane

Set Up allows you to set up the Dynamic Ranges in the active sheet. The **Set Up** option gives you a step-by-step process to guide you through setting up the Dynamic Ranges, and provides a checkbox option to exclude rows with a zero balance. This is the easiest method to set up dynamic ranges as it provides you with the step-by-step process.

1. On the tools tab on the task pane, select the Set Up option under Dynamic Ranges.



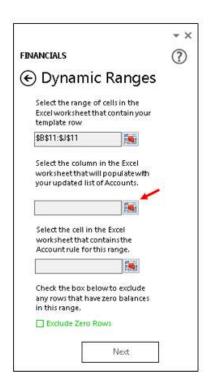
2. The **Dynamic Ranges** window will appear. Click the first ellipses to select the range of cells in Excel that contain your template row. This will be the row that the dynamic ranges will use to copy the formulas and parameters to the other rows that are added to the layout. All cells not selected in this range will not be form part of the dynamic expansion when Dynamic Ranges are refreshed and will thus remain static on the report.



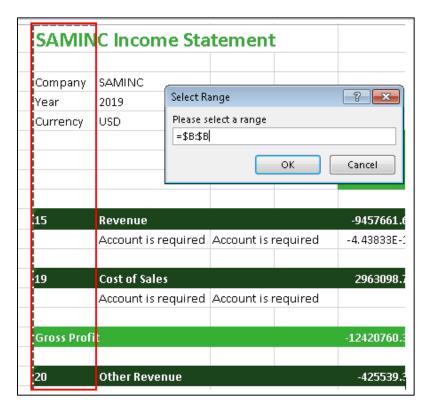
Example below:



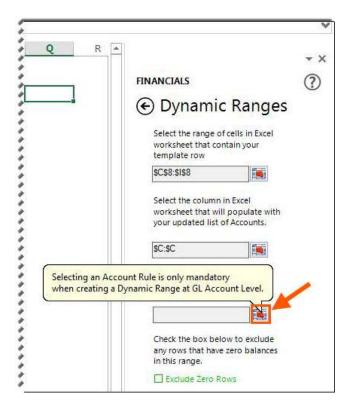
- 3. Absolute cell references will automatically be added for you. Click **OK**.
- 4. Now click the second ellipses to select the column in the Excel worksheet that will populate with your updated list of accounts.



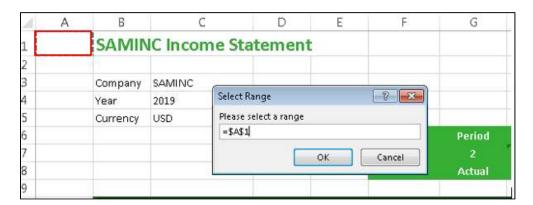
5. Example below:



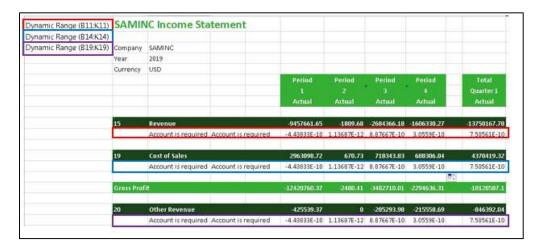
6. Click the third ellipses to select the cell in the Excel worksheet that contains the Account rule. If you have created the layout at a higher level than account level, the Account rule is not mandatory.



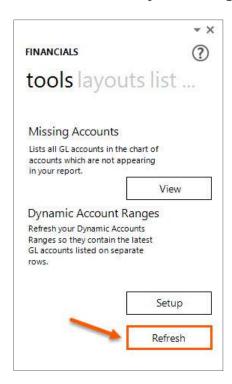
- 7. Enable the **Exclude Zero Rows** option if you do not want to see account rows which have zero balances in all of the columns..
- 8. Click **Next**. The **Select Range** window will appear. Select a cell in the active worksheet to save the dynamic ranges formula to. This can be any cell but top left is best. You can hide this row or column later.



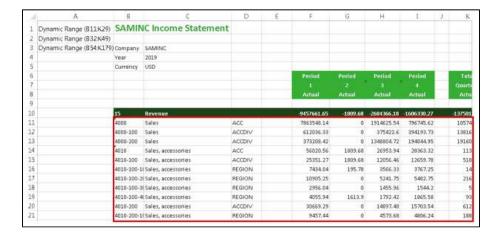
- 9. Click Finish.
- 10. Repeat the set up process for all Dynamic Ranges required in the active sheet. Example below:



- 11. Before you continue, save your workbook in case you have made a mistake and have to revert back to the template to make a change.
- 12. Once all dynamic ranges have been set up in the active sheet, on the task pane, in the tools tab, under **Dynamic Ranges**, click **Refresh**.



13. All of the general ledger accounts will be refreshed and available in your report.



Setting Up Dynamic Account Ranges Using the Excel Functions Option

Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Sage Intelligence Reporting will automatically refresh the range to ensure it contains the latest GL accounts listed on separate rows in your layout.

Note: You can only add Dynamic Ranges to the active sheet.

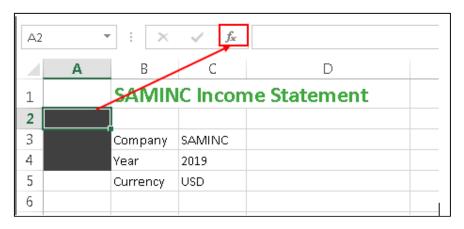
Before setting up dynamic account ranges you must <u>create the template in Microsoft Excel</u> <u>for dynamic ranges</u>.

Although using the <u>Set Up</u> option in the **tools** tab of the task pane is the easiest method to set up dynamic ranges, if you are familiar with Excel and understand how dynamic ranges work, you may find typing the formula in and editing its function arguments quicker.

Using the Excel Functions (Fx) option

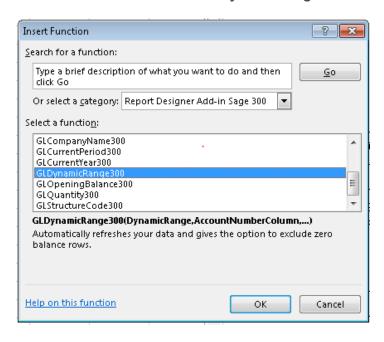
One of the options to set up dynamic ranges on the active sheet is to use the **Insert Function** option.



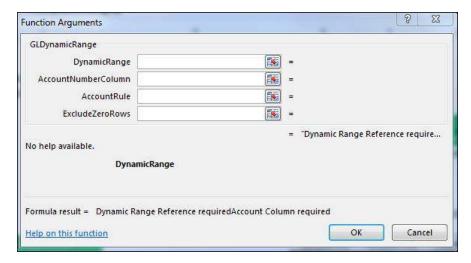


1. Select an empty cell in the active sheet. Top left is recommended.

- 2. Select Insert Function.
- 3. Select a category namely, Report Designer Add-In Sage 300.
- 4. Select a function from the list. GLDynamicRange



5. This will open the function arguments window for the **GLDynamicRange** function. You can now use this to set up your **GLDynamicRange** formula.



Setting Up Dynamic Account Ranges by Typing the Formula In

Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Sage Intelligence Reporting will automatically refresh the range to ensure it contains the latest GL accounts listed on separate rows in your layout.

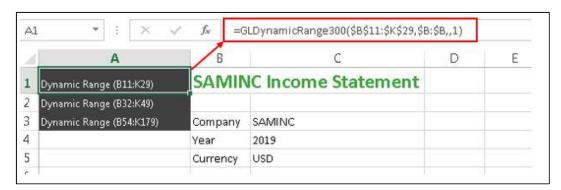
Note: You can only add Dynamic Ranges to the active sheet.

Before setting up dynamic account ranges you must <u>create the template in Microsoft Excel</u> for dynamic ranges.

Although using the <u>Set Up</u> option in the **tools** tab of the task pane is the easiest method to set up dynamic ranges, if you are familiar with Excel and understand how dynamic ranges work and the <u>syntax</u> of the dynamic ranges formula, you may find typing the formula directly in quicker.

Typing the Dynamic Range Function into the active sheet

You can add dynamic account ranges into the active sheet, by typing the formula directly into a cell. Top left of the page is recommended. You can always hide this column later. Example below:



Refreshing Dynamic Account Ranges

Dynamic Account Ranges allow you to add a dynamic range to your financial layouts in the Report Designer. Dynamic Account Ranges can be found on the **tools** tab of the task pane.



Refresh

If there are Dynamic Account Ranges in the active sheet and you click **Refresh**, Sage Intelligence Reporting will automatically update the financial layout with new accounts that may have been added to your Sage 300 general ledger.

Refreshing will also exclude any rows with a zero balance, if you have enabled this option in the <u>Set Up</u>, or in the function arguments.

Dynamic Range Formula

This topic describes the formula syntax and usage of the **GLDynamicRange** formula in Microsoft Excel. The **GLDynamicRange** formula is made available in Microsoft Excel by the Report Designer.

Description

The **GLDynamicRange** formula refreshes general ledger accounts and can exclude rows with zero values, applying all the filters specified as arguments. Each argument can be a cell reference, a constant, or a named range.

Syntax

=GLDynamicRange(DynamicRange,AccountNumberColumn,AccountRule, ExcludeZeroRows)

The GLDynamicRange formula syntax has the following arguments:

Filter	Need	What needs to be filled in ?	What is the purpose of the filter ?
DynamicRange	Required	the template range	used to reference one or more general ledger accounts for which values must be returned. Supports main accounts, account ranges, account wildcards & account addition/subtraction.
AccountNumberColumn	Required	the account code from the main accounts or accounts list retrieved from the general ledger.	filters the general ledger accounts being referenced to a specific account number column.
AccountRule	Optional	depending on what level you have set your layout at. (Level – Account Group, Account Type, Account Category). If your layout is set up at an account level then the Account Rule is required.	filters the general ledger accounts being referenced to a specific account rule.
ExcludeZeroRows	Optional	1 = Exclude Zero Rows, 0 = Include Zero Rows	filters the general ledger accounts being referenced to either display or not display rows with zero values.

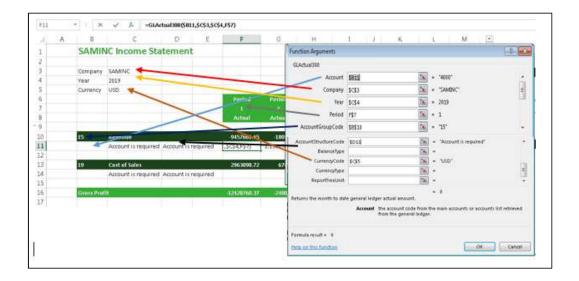
Remarks

- Arguments are applied in the order that they are displayed.
- The recommended method for entering data into the Sage Intelligence Reporting formulas is by using cell references. This method makes modifying and maintaining your worksheet easier.

Example

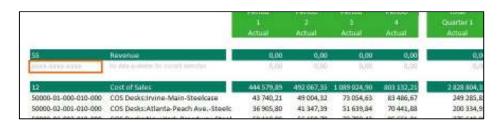
An example of a GLDynamicRange formula could be:

=GLDynamicRange300(\$B\$11:\$K\$29,\$B:\$B,,1)



Troubleshooting Dynamic Account Ranges

XXXX-XXXX-XXXX

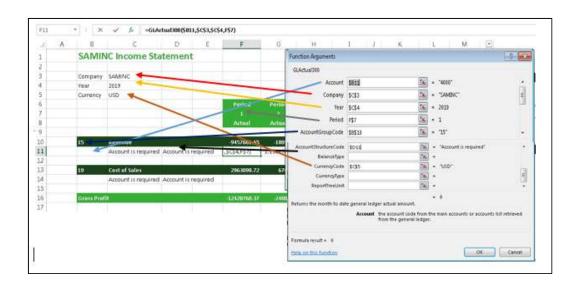


Why does this happen?

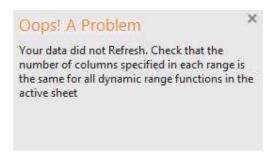
If you have typed in an incorrect or invalid Account number, Account Group, Account Type or Account Category & you refresh the dynamic range, the account column will return a cell with xxxx-xxxx.

Solution

Check the formulas to ensure the Account number, Account Group, Account Type or Account Category reference is correct.



Your data did not Refresh.

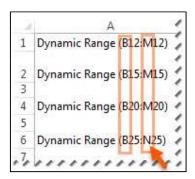


Why does this happen?

The range of cells that contain your template row must have the same number of columns for all dynamic range functions in the active sheet.

Solution

Check the dynamic range formulas to ensure the column range is identical.



In this example, column ${\bf B}$ to column ${\bf M}$ is being used. You would need to change the ${\bf N}$ in the last dynamic range formula to an ${\bf M}$, and then refresh your dynamic account ranges again.