Contents

Setup	
Templates	3
Command Structure	4
Command List	
GL Formats	6
Design	7
Running Reports	9
Batch	. 11

Setup

The process of configuring MAS_Report2 to operate is as follows:

Installation: The product should be installed on a centrally accessible machine to allow all users access. Ideally it should be located in its own shared directory. It must be run from a computer that already has Sage and Microsoft Excel installed. It uses dotnet 4.6.1.

The three necessary files are as follows:

Program – MAS_Report2.exe INI File – MAS_Report2.ini Help File – MAS_Report2.pdf

All files should be copied from the distribution media. The INI file can be customized further to suit your needs. The INI file should look like this.

// Sage

Sage=dsn=Sotamas90;uid=zzz;pwd=xxxxx;company=

Key=s8juiuBBS5343meMs2uOZKzL1

Budget=ORIGINAL

Batch=ON

StartYear = 2015

The key words are in **BOLD**:

- **Sage** is the ODBC connection to Sage. It is suggested that you create a report user with only ODBC access no access to modules, since this INI file is in plain text.
- **Key** is the activation key provided by the vendor.
- **Budget** is the budget to load with the company history (or NONE if you are not using budgets in your reporting, usually set to ORIGINAL)
- **Batch** is ON or OFF. If used it allows multiple templates to be run at the same time. If OFF, it will remove those items from the panel.
- **StartYear** is optional and can be included if the user has many years of GL history but is only interested in reporting on recent years. It will make the history and budget loading from sage go faster.

Templates

Final reports are created using three sources of information. The dollar amounts come from the Sage company database. The reporting period comes from the program interface. The report format and contents are defined in the template workbook. The template contains one or more spreadsheets that contain your reports.

The spreadsheets are formatted using standard Excel formatting and can contain any worksheet functions/formulas. Special tags starting with "*=" define substitution cells from the Sage Database.

As with standard Excel workbooks, you can link data between spreadsheets or have nonprintable sections where you include calculations. Sheets within the workbook can also be completely non-reporting, or have data from other sources. The report program will just copy asis. The only requirement for a reportable sheet is that it contain a *=DATE function (which add the as-of date to the spreadsheet)

Reference the Command help and the Sample workbook.

Report spreadsheet will be created in the same directory as your template and named with the as-of date.

For example; Template = sample_ABC.xlsx Report = sample_ABC_2020_5_31.xlsx

Command Structure

Reports in this system consist of formatted Excel spreadsheets. The spreadsheets are called Templates. They are formatted as you would like the final report to look, with each numeric placeholder containing a formula. When run, the formula will be replaced with the actual value read from Sage.

The formula or command consists of 4 parts:

- **Prefix** this tells the reporting program that the cell contains a request for data (always *=)
- **Company Code** this is the company from which you want to extract data.
- Function What type of data you would like to extract, See Command List.
- **GL** General Ledger account or range to extract data.

Example:

*=ABC|MTD|105-00-01

This function requests the Month-to-Date amount from Company=ABC, GL=105-00-01

The dates or periods are set before running the report.

Command List

DATE – Shows the current as of date (this command has no other parameters).

DATE(xx) - Offsets the template column by x periods (+/-). This would be used with something like a quarterly report, where the Q1 column heading would have a *=DATE(-2), Q2 would have a *=DATE(-1), and Q3 would have *=DATE. This function affects all cells in the column below this command.

Beginning / Ending Balances:

- BBCY Beginning Balance Current Year
- BBCM Beginning Balance Current Month
- BBPY Beginning Balance Previous Year
- EBCY Ending Balance Current Year
- EBPY Ending Balance Previous Year
- BByyyy Beginning Balance for a specific year, enter Fiscal Year.

Transactions:

- MTD Total transactions from beginning to end of the current month.
- YTD Total transactions from beginning of the year to the end of the current month.
- PTyyyymm Total transactions for the specified period.

Budget: (Budget name from INI file)

- BUM Budget for current month.
- BUY Budget year to date.
- BUPyyyymm Budget for a specified period.

Special:

- ^ prefix the command with a carat symbol to add the beginning balance to the function.
- In a YTD case, it will add the BB of the current year to the transactions year to date.

MAS_REPORT2

GL Formats

In the simplest case, you can fully list the GL account:

• *=ABC|MTD|100-00-00

Ranges of accounts can be done listing the main portion of the account or using a wildcard:

• *=ABC|MTD|100 is equal to *=MTD|ABC|100-##-## is equal to *=ABC|MTD|100#

Accounts can be added together:

• *=ABC|MTD|100-00-00+105-00-01

The Dash symbol "-" is only used to separate account segments.

The plus sign "+" is used to add accounts, and the parenthesis are used to negate an account:

• *=ABC|MTD|100-00-00+(105-00-01)

Ranges and Masks

You can sum all of the accounts in a range using the colon symbol ":"

• *=ABC|YTD|100-00-00:299-99-99

And so:

• *=ABC|YTD|100 is equal *=ABC|YTD|100-##-## is equal *=ABC|YTD|100-00-00:199-99-99

To get sub account totals, you will use masks. In this case, the center segment is masked with 05:

- *=ABC|YTD|1##-05-## will get all of the 05 subaccounts >=100 and <200 OR
- *=ABC|YTD|100-05-00:199-05-99 -since the center segment matches, it is used as a mask.

Design

This function is to assist with the development and debugging of reports. It is accessed by pressing the Design Button on the main Run Panel (next section). It expands the desktop to show the design features. The Design button is then replaced with the Run button to allow switching back and forth.

Run					Design							GL		
Projects\MAS_Repo	ort2\MAS_Report2	\bin\Debug\]								Account	Desc		
		1		2	3	4	5	6		•	100-00-00	Cash on hand		1
Load Batch E	dit Batch	· ·	DATE	Simple MTD	YTD	+ YTD + Beginning	-	0			100-00-A	Cash in Trust Fu	ind	1
			DALE	ompre ni i D		TTD + Deginning	perious				101-01-00	Cash in bank - R	eg. checking	1
Load Sage L	oad FRx	Ea	•	*=48CMTD1115	*=ABCIVTD1115	*=ABC/^YTD/11	Pariod1	*=ABCPT202			101-02-00	Cash in bank - p	ayroll	1
Report	Report	W				*=ABC/^YTD/11		*=ABCPT202			101-03-00	Cash in bank - s	avings	1
MAS Report F	Format		ntral			*=ABC ^YTD 11		*=ABCPT202			105-00-00	Accts. receiv.		9
FRx Format		Mi				*=ABC ^YTD 11	_	*=ABCPT202			105-00-01	Accts. receiv I	East Warehse	1
		See			*=ABC YTD 116		Period5	*=ABCPT202			105-00-02	Accts. receiv	West Warehse	1
o Code: ABC			-	0	0	0	Period6	*=ABCPT202			110-01-00	Note receivable		1
o code: Abc											111-00-00	Other Receivabl	es	1
iscal Period 05	v	То	tals (East/West	*=ABCMTD115	*=ABC YTD 115	*=ABC/^YTD/11					115-00-01	Inventory - East	t Warehouse	1
Fiscal Year 202			tals all		*=ABC/YTD/115	*=ABC/^YTD11					115-00-02	Inventory - Wes	t Warehouse	1
				*=ABCMTD115		*=ABC/^YTD/11					115-00-03	Inventory - Cen	tral Warehouse	1
as of Date 5/3	1/2020	**	his masks the	*=ABCMTD115	*=ABC YTD 115	*=ABC/^YTD/11						Calcula		
Start Batch					*=ABC YTD 115:							Calcula	ation	
Start Battri				*=ABCMTD 115	*=ABC YTD 115	*=ABC ^YTD 11					GLAcet	Trans	BB	Budget
Write Report										•	+115-00-01	-124111.60	24789.81	0
Show Result											+115-00-02	101830.90	7792.03	0
Show Hesuit											+115-00-03	220731.23	225171.58	0
d Complete		Pa	yroll Warehouse	*=ABC[MTD]450	*=ABC YTD 450						+115-01-00	0	0.00	0
		Pa	yroll Service	*=ABC MTD 450	*=ABC YTD 450				Cal->		+116-00-00	34.25	0.00	0
		Pa	yroll Clerical	*=ABC MTD 505	*=ABC YTD 505				Trend->		Total a:	198484.78	257753.42	0
									Trenu-2		Total b:	456238.20	0	0
				current period	Last Period				Detail?		Result:	299836.29	0	0
		Co	mpare PR Serv	*=ABC MTD 450	*=ABC PMTD 45					*				
		<						>		<				

The Design Grid will show sheet 1 of your workbook with all of the MAS_Report cells highlighted. The grid is adjustable, so you are able to scroll, as well as expand/shrink columns. The Design Panel also has an extra button, "Show Results," which will toggle the Design Grid between showing formulas and showing results. This "Show Results" button only displays Sage Data; no formatting or Excel functions are shown.

For reference, the upper right grid shows the GL listing of the current company.

The bottom right Calculation Grid has three functions:

1- Selecting a cell on the Design Grid and pressing the Cal-> button will show a calculation of your MAS_Report formula, displaying the full list of GL accounts that will be used in that calculation. This shows the period transactions, beginning balance, and the budget for the period. The "Result" line shows what it calculates as the result of your formula.

MAS_REPORT2

2- Selecting a cell in the Design Grid and pressing the "Trend" button will show a trend of the cell formula over the entire historical period of data in Sage. See the following image:



3- Selecting a cell in the Calculation Grid and pressing the "Detail" button will cause the program to read all of the detail transactions of the GL accounts in that cell for the selected period and display the results. This could take time depending on the number of transactions. See the following example:

	PostingDa	Source	JournalR	PostingComment	DebitAmour	^
•	531202	AR	000001	AR INVOICE ENTRY - 053103	0.00	
	531202	AR	000061	AR INVOICE ENTRY - 053103	0.00	
	531202	IM	000072	INVENTMonthly Inv Pur Tr	69690.71	
	531202	IM	000074	INVENTORY TRANSACTIO	558.75	
	531202	IM	000075	INVPURInventory Purchase	14037.31	
	531202	IM	000076	INV\$AL\$ale of Excess Invent	0.00	
	531202	SJ	000091	SLSCSTMonthly Sales Costs	0.00	
	531202	SO	000003	Shepard Motorwork REF0100	0.00	
	531202	SO	000003	Greater Alarm Com REF0100	0.00	
	531202	so	000003	Greater Alarm Com REF0100	0.00	
	531202	so	000003	Orange Door Win REF0100047	0.00	
	531202	so	000003	Orange Door Win REF0100047	0.00	
	530202	so	000004	American Business REF0100048	0.00	v

. . . .

In this Design Grid, you can create/test new formulas anywhere on the grid. These will not be written to, or saved to, the original template.

As with the Run panel (next section), you can generate a report by pressing the "Write Report" button.

Running Reports

There is an ABC company sample template included (in a separate file) to work with. You should include all formatting on your template (bolding, formulas, etc) and it will pull through to your final report. Here is a sample:

\cdot : $\times \checkmark f_x$					
В	С	D	E	F	
Simple MTD	YTD	YTD + Beginning balance	periods		
*=ABC MTD 115-00-01	*=ABC YTD 115-00-01	*=ABC ^YTD 115-00-01	Period1	*=ABC PT202001 115-##-##:1	
*=ABC MTD 115-00-02	*=ABC YTD 115-00-02	*=ABC ^YTD 115-00-02	Period2	*=ABC PT202002 115-##-##:1	
*=ABC MTD 115-00-03	*=ABC YTD 115-00-03	*=ABC ^YTD 115-00-03	Period3	*=ABC PT202003 115-##-##:1	
*=ABC MTD 115-00-00	*=ABC YTD 115-00-00	*=ABC ^YTD 115-00-00	Period4	*=ABC PT202004 115-##-##:1	
*=ABC MTD 116-00-00	*=ABC YTD 116-00-00	*=ABC ^YTD 116-00-00	Period5	*=ABC PT202005 115-##-##:1	
\$0.00	\$0	.00 \$0.	00 Period6	*=ABC PT202006 115-##-##:1	16-##-##
*=ABC MTD 115-00-01:115-00-03	*=ABC YTD 115-00-01:115-00-03	*=ABC ^YTD 115-00-01:115-00-03			
*=ABC MTD 115-0#-00:116-0#-03	*=ABC YTD 115-0#-00:116-0#-03	*=ABC ^YTD 115-0#-00:116-0#-03			
*=ABC MTD 115-00-00:116-01-03	*=ABC YTD 115-00-00:116-01-03	*=ABC ^YTD 115-00-00:116-01-03			
*=ABC MTD 115-00-00:116-00-03 *=ABC MTD 115:116	*=ABC YTD 115-00-00:116-00-03	*=ABC ^YTD 115-00-00:116-00-03 *=ABC ^YTD 115:116			
*=ABC MTD 115:116 *=ABC MTD 115-##-##:116-##-##	*=ABC YTD 115:116 *=ABC YTD 115-##-##:116-##-##	*=ABC ^YTD 115:116 *=ABC ^YTD 115-##-##:116-##-##			
"=ABC WID 113-##-##:116-##-##	-=ABC 110 113-##-##:110-##-##	-=ABC ^++1D 115-##-##:110-##-##			
*=ABC MTD 450-03-##	*=ABC YTD 450-03-##				
*=ABC MTD 450-04-##	*=ABC YTD 450-04-##				
*=ABC MTD 505-00-03	*=ABC YTD 505-00-03				
current period	Last Period				
*=ABC MTD 450-04-##	*=ABC PMTD 450-04-##				

The headings are bolded and the columns are formatted as currency. Row 8 has Excel sum functions to show usage of standard worksheet functions.

MAS_REPORT2

When running the program, the standard Run panel looks like this:

MAS Report2 (beta1.4) ?
Design
Load Batch Edit Batch
Load Sage Report Report
MAS Report Format
FRx Format
Co Code:
Fiscal Period
Fiscal Year
as of Date
Start Batch
Write Report
Show Result

Press the "Load Sage Report" button and select the template spreadsheet. It will take a moment to load. The status is displayed in the colored bar at the bottom. As it loads, it will import GL accounts and history for the company codes in the template. When complete, the company code appears in the center of the panel. No other actions are possible while it loads.

Next, select your reporting period. The dropdown boxes contain the years and periods that the company code has in history. The "as-of" date will automatically be filled in.

Press the "Write Report" button to export the report. The new report spreadsheet will be in the same directory as the template, but will have the "as-of" date included as the last part of the name.

Continue to load and run as many templates as needed. Note that while the application is running, it will maintain the company data (or companies data). This makes it so that sequential reports will not require any time to reload the company GL data, and will run faster.

Batch

Several reports can be run at the same time in a batch. For example, monthly reports. A batch is simply a list of template files to be run.

Start by pressing the "Edit Batch" button. This will show a standard lookup. Browse to the target directory and type the new batch name in the filename box.



Then press the "Add" button to add as many templates as needed.



Save when complete. This will create an MRB – Mas Report Batch, which is a text file with the template names in it.

Back at the main panel, Select "Load Batch," and pick the batch file to load.

It will load the first template and company data as it would when selecting the "Load Sage Report" function. When it is complete, select the fiscal year and period and press the "Start Batch" button. It will cycle through all of the templates and write the reports.