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1 - MS Word Certificate of Analysis Documents in Quality Window

A new macro called **Display_MSWORD_COA** is available to help in generating custom Certificate of Analysis documents, or basically any type of formatted document where information from a Quality Window application needs to be merged with the corresponding MS Word document. Once installed, the macro will appear under the Macros submenu of Quality Window.

Preparing the MS Word Document

The user would start by designing the MS Word document, which could include logos, tables, signature areas, etc... and would allow for placeholders wherever data from Quality Window needs to be merged. Each location in the document where a field is to be placed can be done as follows:

In MS Word, click on the Insert tab, and then choose Quick Parts, and then choose Fields.

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9	Home	Insert	Page Layout	Reference	is Mailings	Review	V	iew Developer Acrobat	
Pages	Table	Picture	Cip art alt Chart	Q. Links	Header - Footer -	A Test	1	Detunient Property	- Ded
-	Tables	- 1 - 1	Hustrations	3 1 1	Header & Foster	\$ + 1		Building Blocks Organizer Get More on Office Online Save Selection to Quick Part Gallery	9 -

A dialog will appear where you can name the field. Under **Field Names**, select **MergeField**, and then enter a **Field Name**.

field		
Please choose a field Categories:	Field properties Field name;	Field options Text to be inserted gefore:
(Al) Eield names:	Value[Customer_Name] Formaj;	Text to be inserted gfter:
Film GateButton GreetingLine Hyperink If Indusferbure Ind	(fone) Uppercase Lowercase First capital Title case	Bapped field Vigrical formationg
Listhum Macrobutton Macrobutton MarpRec MerpSeq Next Description: Insert a mal merge field Fjeld Codes		Preserve formating during updates

The Field Name has a special naming convention:

Prompt[Message]

This format will prompt the user at run time using the message specified, and the results to be inserted at this field location. If you have more than one prompt with the exact same message, it will only prompt once, and the other fields will be automatically filled in with the same result.

ie Prompt[Enter Customer Name]



Value[QW_Variable_Name]

This format will insert the value of the QW variable specified, based on the current row selected on the Logsheet. The variable name must be an exact match to that specified in Quality Window. The variable must also be one that's included in the current View, if a View is being used. Note that if you change a variable name in your QW application, be sure to update your COA document.

ie Value[Batch_No]

Statistic[QW_Variable_Name]

This format will insert the summary statistic of all values currently in the Logsheet for the QW variable specified. The variable name must be an exact match to that specified in Quality Window. The variable must also be one that's included in the current View, if a View is being used. Note that if you change a variable name in your QW application, be sure to update your COA document. Also note that the statistics supported must be exact matches to the abbreviations used in Quality Window (which can be seen on the Control Chart screen or in QWSumStat). Some common examples are: Avg, N, USL, UCL, TGT, LCL, LSL, Cr, Tz, Cpk, V_Units, V_Category, etc...

ie Avg[Conveyor_Speed]

System[parameter]

This format will insert one of many supported system parameters, such as:

[Date:format] – display the current date in the specified format System[Date:yyyy-mm-dd] returns 1993-01-27 System[Date:m/d/yy] returns 1/27/93 System[Date:dddd, mmmm dd, yyyy] returns Wednesday, January 27, 1993
[Time:format] – display the current time in the specified format System[Time:hh:mm:ss] returns 17:18:15 System[Time:hh:mm:ss AM/PM] returns 05:18:15 PM
[QWFilename] – displays the current Quality Window filename
[QWViewName] – displays the current Quality Window View name
[QWTitle] – displays the current Quality Window application title
[ComputerName] – displays the workstation's computer name
[UserName] – displays the Windows logon name

Once all fields have been added to your document, it is time to save it. The script assumes that your document will be in the same folder as your QW data file. What you name your document is very important – if you have no View loaded, then the script will look for a document with the same name as the QW application; and if a View is loaded, then it will look for a document with the same name as the current View. As for File Type, the script supports both DOT and DOC variants (dotx, dotm, dot, docx,



docm, doc) in that order. Using a template file can be advantageous in that the end users cannot overwrite the original document by mistake.

If no matching Word files are found, then a File Chooser dialog will be displayed and allow the user to select the document to use.

When it's time to generate a document, the end user would open their specific QW application, open a View if any filtering needs to be done, highlight a specific record if any 'Value' tags have been specified, and then click on **Macros** -> **Display_MSWORD_COA**. The script will then open your document in MS Word and begin to complete your document by filling in all of your fields. Note that fields are processed in a top-down fashion. Once complete, the user can then Save, Print or Email the document as needed.



2 - MS Excel Certificate of Analysis Documents in Quality Window

A new macro called **Display_MSEXCEL_COA** is available to help in generating custom Certificate of Analysis documents, or basically any type of formatted document where information from a Quality Window application needs to be merged with the corresponding MS Excel document. Once installed, the macro will appear under the Macros submenu of Quality Window.

Preparing the MS Excel Document

The user would start by designing the MS Excel document, which could include logos, tables, signature areas, etc... and would allow for placeholders wherever data from Quality Window needs to be merged. Each location in the document where a field is to be placed can be done by simply typing into the appropriate cell with the following special naming convention:

Prompt[Message]

This format will prompt the user at run time using the message specified, and the results to be inserted at this cell location. If you have more than one prompt with the exact same message, it will only prompt once, and the other cells will be automatically filled in with the same result.

ie Prompt[Enter Customer Name]

Value[QW_Variable_Name]

This format will insert the value of the QW variable specified, based on the current row selected on the Logsheet. The variable name must be an exact match to that specified in Quality Window. The variable must also be one that's included in the current View, if a View is being used. Note that if you change a variable name in your QW application, be sure to update your COA document.

ie Value[Batch_No]

Statistic[QW_Variable_Name]

This format will insert the summary statistic of all values currently in the Logsheet for the QW variable specified. The variable name must be an exact match to that specified in Quality Window. The variable must also be one that's included in the current View, if a View is being used. Note that if you change a variable name in your QW application, be sure to update your COA document. Also note that the statistics supported must be exact matches to the abbreviations used in Quality Window (which can be seen on the Control Chart screen or in QWSumStat). Some common examples are: Avg, N, USL, UCL, TGT, LCL, LSL, Cr, Tz, Cpk, V_Units, V_Category, etc...

ie Avg[Conveyor_Speed]



System[parameter]

This format will insert one of many supported system parameters, such as:

[Date:format] – display the current date in the specified format System[Date:yyyy-mm-dd] returns 1993-01-27 System[Date:m/d/yy] returns 1/27/93 System[Date:dddd, mmmm dd, yyyy] returns Wednesday, January 27, 1993
[Time:format] – display the current time in the specified format System[Time:hh:mm:ss] returns 17:18:15 System[Time:hh:mm:ss AM/PM] returns 05:18:15 PM
[QWFilename] – displays the current Quality Window filename
[QWViewName] – displays the current Quality Window View name
[QWTitle] – displays the current Quality Window application title
[ComputerName] – displays the workstation's computer name
[UserName] – displays the Windows logon name

Once all fields have been added to your document, it is time to save it. The script assumes that your document will be in the same folder as your QW data file. What you name your document is very important – if you have no View loaded, then the script will look for a document with the same name as the QW application; and if a View is loaded, then it will look for a document with the same name as the current View. As for File Type, the script supports both XLT and XLS variants (xltx, xltm, xlt, xlsx, xlsm, xls) in that order. Using a template file can be advantageous in that the end users cannot overwrite the original document by mistake.

If no matching Excel files are found, then a File Chooser dialog will be displayed and allow the user to select the document to use.

When it's time to generate a document, the end user would open their specific QW application, open a View if any filtering needs to be done, highlight a specific record if any 'Value' tags have been specified, and then click on **Macros** -> **Display_MSEXCEL_COA**. The script will then open your document in MS Excel and begin to complete your document by filling in all of your fields. Note that fields are processed in a top-down fashion. Once complete, the user can then Save, Print or Email the document as needed.

Note that the Excel implementation supports an extra command called: **\$SUMMARY** If placed in a cell, whatever formatting that cell's row has will be duplicated for each variable in the view, and from that cell forward, all statistics specified in the view will be dumped in a columnar fashion. If the view specified Include *Chartable Variables Only*, then only variables with limits will be reported. This method can be a quick way to dump statistics into your report. The row above the \$SUMMARY cell should contain headers to match the resulting statistics selected to make the report more legible.



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3								
4		Customer Name:	Prompt[Customer Name]]		Batch No:	Value[Batch_No]	
5		Customer No:	Prompt[Customer Numb	erl		Mfg Date:	Value[Date]	
7							(analizate)	
8		Property	Value	Specifications				
9		рН	Value[pH]	USL: 12.1 LSL:1	.1.9			
10		Batch Viscosity	Value[Batch_Viscosity]	USL: 20.5 LSL:2	0.0			
11		Conveyor Speed	Value[Conveyor_Speed]	USL: 200.1 LSL	190.1			- 8
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3 - List of available Statistics (always use the abbreviations)

Statistic	Abbreviation	Statistic	Abbreviation
Average	Avg	Current LWL (Fixed/Calc)	LWL - cur
Calc % above TGT	C%>TGT	Current Standard Deviation	Std Dev - Cur
Calc % above UCL	C%>UCL	Current TGT (Fixed/Calc)	TGT - cur
Calc % above USL	C%>USL	Current UCL (Fixed/Calc)	UCL - cur
Calc % above UWL	C%>UWL	Current UCL (Fixed/Calc)	UCL - cur
Calc % below LCL	C% <lcl< td=""><td>Current USL (Fixed/Calc)</td><td>USL - cur</td></lcl<>	Current USL (Fixed/Calc)	USL - cur
Calc % below LSL	C% <lsl< td=""><td>Current UWL (Fixed/Calc)</td><td>UWL - cur</td></lsl<>	Current UWL (Fixed/Calc)	UWL - cur
Calc % below LWL	C% <lwl< td=""><td>Last Value</td><td>Last Value</td></lwl<>	Last Value	Last Value
Calc % below TGT	C% <tgt< td=""><td>Limits Based On</td><td>V_LimBase</td></tgt<>	Limits Based On	V_LimBase
Calc % OSL	C%OSL	Limits Centered On	V_LimCenter
Calc N above TGT	Cn>TGT	Lower Control Limit	LCL
Calc N above UCL	Cn <ucl< td=""><td>Lower Process Capability (-3S)</td><td>Avg -3S</td></ucl<>	Lower Process Capability (-3S)	Avg -3S
Calc N above USL	Cn>USL	Lower Process Capability (-4S)	Avg -4S
Calc N above UWL	Cn>UWL	Lower Spec. Limit	LSL
Calc N below LCL	Cn <lcl< td=""><td>Lower Warning Limit</td><td>LWL</td></lcl<>	Lower Warning Limit	LWL
Calc N below LSL	Cn <lsl< td=""><td>Maximum Allowable Value</td><td>V_Max_Allow</td></lsl<>	Maximum Allowable Value	V_Max_Allow
Calc N below LWL	Cn <lwl< td=""><td>Maximum Value</td><td>Max Value</td></lwl<>	Maximum Value	Max Value
Calc N below TGT	Cn <tgt< td=""><td>Median</td><td>М</td></tgt<>	Median	М
Calc N OSL	CnOSL	Minimum Allowable Value	V_Min_Allow
Calc ppm above TGT	Cppm>TGT	Minimum Value	Min Value
Calc ppm above UCL	Cppm>UCL	Number of Decimals	V_Decimals
Calc ppm above USL	Cppm>USL	Number of Points	N
Calc ppm above UWL	Cppm>UWL	Obs % above TGT	O%>TGT
Calc ppm below LCL	Cppm <lcl< td=""><td>Obs % above UCL</td><td>0%>UCL</td></lcl<>	Obs % above UCL	0%>UCL
Calc ppm below LSL	Cppm <lsl< td=""><td>Obs % above USL</td><td>0%>USL</td></lsl<>	Obs % above USL	0%>USL
Calc ppm below LWL	Cppm <lwl< td=""><td>Obs % above UWL</td><td>0%>UWL</td></lwl<>	Obs % above UWL	0%>UWL
Calc ppm below TGT	Cppm <tgt< td=""><td>Obs % below LCL</td><td>0%<lcl< td=""></lcl<></td></tgt<>	Obs % below LCL	0% <lcl< td=""></lcl<>
Calc ppm OSL	CppmOSL	Obs % below LSL	O%LSL
Calc ppm UCI	CppmUCI	Obs % below LWL	0% <lwl< td=""></lwl<>
Calc. Lower Warning Limit	CLWL	Obs % below TGT	0% <tgt< td=""></tgt<>
Calc. Upper Warning Limit	CUWL	Obs % on TGT	O%=TGT
Capability Index	Ср	Obs % OSL	0%OSL
Category	V_Category	Obs N above TGT	On>TGT
Clearance	Cpk	Obs N above UCL	On>UCL
Coefficient Variation	%CV	Obs N above USL	On>USL
Cross Reference	V_Xref	Obs N above UWL	On>UWL
Current Average	Avg-Cur	Obs N below LCL	On <lcl< td=""></lcl<>
Current LCL (Fixed/Calc)	LCL - cur	Obs N below LSL	On <lsl< td=""></lsl<>
Current LSL (Fixed/Calc)	LSL - cur	Obs N below LWL	On <lwl< td=""></lwl<>

Statistic	Abbreviation
Obs N below TGT	On <tgt< td=""></tgt<>
Obs N on TGT	On=TGT
Obs N OSL	OnOSL
Obs ppm above TGT	Oppm>TGT
Obs ppm above UCL	Oppm>UCL
Obs ppm above USL	Oppm>USL
Obs ppm above UWL	Oppm>UWL
Obs ppm below LCL	Oppm <lcl< td=""></lcl<>
Obs ppm below LSL	Oppm <lsl< td=""></lsl<>
Obs ppm below LWL	Oppm <lwl< td=""></lwl<>
Obs ppm below TGT	Oppm <tgt< td=""></tgt<>
Obs ppm on TGT	Oppm=TGT
Obs ppm OSL	OppmOSL
Obs ppm UCI	OppmUCI
Range AVG	R-AVG
Range LWL	R-LWL
Range UCL	R-UCL
Range UWL	R-UWL
Report Type	V RepType
Rule Violation	Rule
Sampling Plan	V Sampling
Sigma	Sigma
Std Dev - mr	S-mr
Std Dev - Pop	S-pop
Sum	Sum
Target	TGT
Target Deviation	T-Dev
Targeting	Tz
Unit of Measure	V_Units
Upper Control Limit	UCL
Upper Process Capability (+3S)	Avg +3S
Upper Process Capability (+4S)	Avg +4S
Upper Spec. Limit	USL
Upper Warning Limit	UWL
Variable Length	V_Length
Variable Name	V_Name
Variable Reference	V_No
Variable Type	_ V_Type
Variation	Cr