

# **Customizing PiWeb Header**



PiWeb has the ability to add additional information to the Header that may be required or desired.

This guide will go through the steps to create variables (like **Job Number** and **Shift Manufactured**), add the variables created to the Header, and will go over some of the steps to modified the Header (like adding a company logo).

# With PiWeb the possibilities are almost endless!

Default Header				Modifi	ed Header	<sup>-</sup> Ex	ample
Part name Drawing number	S CALYPSO CAD Cube Demo Program PASSIVE			ZEISS ZEISS CALYPS	<b>)</b> mo Program PASSIVE	Date: Time:	1/25/2019 10:34:30 AM Programmer: Ted
Order number Variant Company Department CMM Type CMM No. Operator	CON_2014_G2 000000 Master	Last 1 measurements ► Approval ≠ Blocked Part ident Time/Date Run No. measured values No. values; red	02 1/16/2019 4:06 PM All Characteristics 58 16	Job Number: ABC-123 Shift Manuf1st Shift Inspector: Gayle Run: All Characteristics Part ident: 02	Part Status Measurement Duration: 00	<b>C</b>	No. measured values: 58 58 0 0 0
Name	Measured valueNominal val tum A D3 0.0045 0.0000	Measurement Duration           lue         +Tol         -Tol           0         0.0500         0.0000	00:01:32.0 Deviation +/- 0.0046	Name	MeasuredNominal +To 0.0049 0.0000 0.05	ol -	Fol         Deviation         +/-           000         0.0049         •         •

# Creating Variables:

Before modifying the Header, the variables need to be created, for this guide we will be creating the following Variables: **Job Number**, **Shift Manufactured**, **QC Inspector**, and **Programmer**.



# **UserFields Editor: Properties Overview**

Allow Editing when editing the inspection pl	an 🔲 Use values f	rom a list	_
Allow Earling upon CNC start  Allow entering values by keyboard  Default Value  Optional	Кеу	Value	

**Allow Editing when editing the inspection plan**; allows editing of the variable inside the program.

**Allow Editing upon CNC start**; allows editing of the variable at the start of a run.

**Allow Entering values by keyboard**; allows editing of the variable using a Keyboard.

**Use values from a List**; allows the variable to be selected from a list with the mouse.

#### Job Number (NewVariable0): Keyboard Entry at CNC Start

The goal is to make **Job Number** a Keyboard Entry at CNC Start (Operator uses keyboard to type in the Job Number at the start of the run).



Right click on NewVariable0 and select **Rename Variable**, in the **Name** area enter **Job\_Number**, then in the **Internal Name** area enter **u\_Job\_Number** and select OK. Since this is "code" stay away from special characters and even spaces ("\_" is allowed).

In the UserFields Editor window select the following:

Allow Editing upon CNC start Allow Entering values by keyboard

# Shift Manufactured (NewVariable1): List drop down, NO Keyboard Entry at CNC Start

The goal is to make **Shift Manufactured** a drop down box with **NO** Keyboard Entry at CNC Start, using 1<sup>st</sup> Shift as the default value of the list. (Operator uses mouse and selects the Shift Manufactured from the drop down list at the start of the run).

👼 UserFields Editor	1.0.30	📈 Rename	
NewVariable0		Name	Shift_Manufactured
NewVariable1	Rename Variable		0.0.4
NewVariable2 NewVariable3	Add Variable Delete Variable	OK	Cancel

Allow Editing when editing the inspection plan

1

Mapping

Allow Editing upon CNC start

Properties

Default Value

Optional

Right click on NewVariable1 and select **Rename Variable**, in the **Name** area enter **Shift Manufactured**, then in the **Internal** 

**Name** area enter **u\_Shift\_Manufactured** and select **ok**. Since this is "code" stay away from special characters and even spaces ("\_" is allowed).

n the UserFields	Editor window select the
ollowing, <mark>in this</mark>	order:

- 1 Default Value type in 1
- 2 Use values from a list
- 3 Allow Editing upon CNC start

# Creating the List:

Job\_Number

Programmer

Shift\_Manufactured OC Inspector

Key	Value
Right	Add Entry
Click	Delete Entry
here	Use As Default

To create the list, right click in the window under **Key | Value** and select **Add Entry**, repeat this step 2 more times for a total of 3 entries.

Value

1st Shift

2nd Shift

3rd Shift

First: new\_Key type in 1 and for new\_Value type in 1st Shift.

Use values from a list

Key

Second: new\_Key type in 2 and for new\_Value type in 2nd Shift.

Third: new\_Key type in 3 and for new\_Value type in 3rd Shift

Key	Value
new_Key	new_Value
new_Key	new_Value
new_Key	new_Value
-	
Use values fro Key	om a list Value
Use values fro Key 1	om a list Value 1st Shift
Use values fro Key 1 2	Value Value 1st Shift 2nd Shift

Key	Value	
1	1st Shift	
2	2nd Shift	Add Entry
3	3rd Shift	Delete Entry

To make 1<sup>st</sup> Shift the default for PiWeb right click on 1<sup>st</sup> Shift and select **Use As Default.** 

**NOTE:** To set the default value for a List in PiWeb right clicking and setting the default is required, the **Default Value** set to 1 in the UserFields Editor is for the non PiWeb reports.

I

# <u>QC Inspector (NewVariable2)</u>: List drop down, WITH Keyboard Entry at CNC Start ("Combo Box")

The goal is to make **QC Inspector** a drop down box with **WITH** Keyboard Entry at CNC Start, using one of the QC Inspectors as the default value of the list. (Operator uses mouse and selects the QC Inspector from the drop down list or uses the keyboard to type in the QC Inspector if they are not on the list at the start of the run).

NewVariable0		Name	QC_Inspect	or	ſ
NewVariable1	Rename Variable	Internal Name	u OC Inspe	ector	e
NewVariable3	Add Variable Delete Variable	ОК	Cance	4	S a
Job_Number Shift_Manufactured QC_Inspector Programmer	Properties Mapping	g diting the inspection plan NC start	Use values fr	om a list	
	Allow entering values	by keyboard	Key	Value	
	Default Value 1		2	lea	
			3	Eileen	
	Uptional		4	Tom	
				14 11	

Right click on NewVariable3 and select **Rename Variable**, in the **Name** area enter **QC\_Inspector**, then in the **Internal Name** area enter **u\_QC\_Inspector** and select  $\bigcirc$ K. Since this is "code" stay away from special characters and even spaces ("\_" is allowed).

In the UserFields Editor window select the following:

Allow Editing upon CNC start Allow Entering values by keyboard Use values from a list Default Value type in 1

Create the list and set the default the same way as described in the Shift Manufactured section (page 2).

#### **Programmer** (NewVariable3): Keyboard Entry inside of the Inspection Plan

The goal is to make **Programmer** a Keyboard Entry inside of the Inspection Plan. (Programmer uses the keyboard to type in the Programmer's name inside of the program, operator does not perform this task).

👼 UserFields Editor 1	1.0.30	📈 Rename	X
NewVariable0		Name	Programmer
NewVariable1	Rename Variable		
NewVariable2 NewVariable3	Add Variable	Internal Name	u_Programmer
	Delete Variable		

Right click on NewVariable3 and select **Rename Variable**, in the **Name** area enter **Programmer**, then in the **Internal Name** area

enter **u\_Programmer** and select \_\_\_\_\_. Since this is "code" stay away from special characters and even spaces ("\_\_" is allowed).

Job_Number Shift_Manufactured QC_Inspector Programmer	Properties Mapping	In the UserFields Editor window select the following:		
	Allow Editing when editing the inspection plan	Use values from a list		Allow Editing when editing the
	Allow entering values by keyboard	Key	Value	Inspection plan
	Default Value			keyboard

**NOTE:** Like setting the **Default Value** to 1 in the UserFields Editor, **Allow Editing upon CNC start** and **Allow Editing when editing the inspection plan** does not apply to the PiWeb report it only applies to non PiWeb reports.

🛒 UserFields Editor 1.0.30			x	
Job, Number Shift, Marufactured QC, Inspector Programmer	Properties Mapping	Unsaved Changes		
	Allow Editing upon CNC start Allow entering values by keyboard Default Value	File was not saved. Save it?		
	C Optional	Yes No Cancel		

When finished creating the variables, close out the UserFields Editor window by selecting in the upper right corner and selecting vestor to save the changes. This updates or creates the userfields userfields.ini file in C:/Users/Public/Public Documents/Zeiss/CAYLPSO/protocol/protform.

# Setting Allow Editing upon CNC start and Allow Editing when editing the inspection plan for the PiWeb report:

To set Allow Editing upon CNC start and Allow Editing when editing the inspection plan for the PiWeb report, select



**Note:** If using a Template Program, set these up in the Template Program, if not, the variables will have to be selected for every program. Likewise each existing program the variables will have to be selected.

#### Modifying / Using the Variables:

With a program open select Resources/Printout header parameters, the Input Parameter window opens displaying the

Resource	s Fe <u>a</u> tures <u>C</u> onstruction <u>S</u>	ize 🖘	Input Parameter			×
RT Fi	unctions	•				
Stylu	is system		Name		Value	-
otyta	o oyotom		Drawing No.	1		
Meas	surement Plan	•	Programmer			
Meas	surement Plan Information					
Featu	ures representation					
Spac	e Point Mode	-				
Defin	e printout					-
Printe	out <u>h</u> eader parameters		Force Input at Start		ок	Cancel
Resu	Its to File					

variables where Measurement has been checked, Drawing No. and Programmer, with their default values. These are the variables that are Allow Editing when editing the inspection plan.

Next check	Force Input at Start	at the bottom
left of the w	indow, this forces th	e variables that
are Allow Ec	liting upon CNC star	t to open when
the program	runs.	

	User	Master	1
Name	Valu	e	
Incremental Part Number	03		
Job_Number	1		
QC_Inspector	Ted		
Shift_Manufactured	1st Shift		

To view the CNC Start variables select **Plan/Preassign CNC** Start Values... the Preassign CNC Start Values window

opens, select Printout header data , the Input
Parameter window opens displaying the variables where
Run has been checked, Incremental Part Number,
Job_Number, QC_Inspector, and Shift_Manufactured, with
their default values. These are the variables that are Allow
Editing upon CNC start.

Job Number: Keyboard Entry at CNC Start; click in the box and type in
the Job Number using the Keyboard.

Name	Value	
Incremental Part Number	03	
Job_Number	ABC-123	
QC_Inspector	Ted	
Shift_Manufactured	1st Shift	

	User Master	•
Name	Value	P
Incremental Part Number	03	
Job_Number	ABC-123	
QC_Inspector	Ted	
Shift_Manufactured	2nd Shift	-
	1st Shift	
	2nd Shift	
	2nd Shift 3rd Shift	

**Shift Manufactured:** List drop down, **NO** Keyboard Entry at CNC Start; click and select the Shift Manufactured from the list with the mouse.

**QC Inspector:** List drop down, **WITH** Keyboard Entry at CNC Start; click and select the QC Inspector from the list with the mouse or click in the box and type in the QC Inspector using the keyboard if not in the list. In this example Gayle was entered using the keyboard because she was not in the list.

	-	
User	Master	
Val	ue	
03		
ABC-123		
Gayle		-
Ted Joe Eileen Tom		
	Val 03 ABC-123 Coyc Ted Joe Ellen Tom Kaba	User Master Value 03 ABC-123 Coyle Ted Joe Elleen Tom Katua

Hame		Value	
Drawing No.			
Programmer	Ted		

**Programmer:** Keyboard Entry in the Inspection Plan (**Resources/Printout header parameters**); click in the box and type in the Programmer's name using the Keyboard.

Now that we have variables created and editable in the proper areas, it is time to get them in the header.

# **Modifying the PiWeb Header:**

	3	Printout Features
Start by selecting	Multiple Printout in the <b>Printout Features</b> section of	🕤 New 🗖
the new window that opens select <b>New/PiW</b> the report just added highlighted, select	<b>Veb Reporting</b> to add an additional report. With Opens PiWeb Designer Select <b>Generic templates</b> from the	Default Printout Star Compact printout Custom printout Basic Benorter
allows the report to be used for any progra Modified Header 18 (18 being the	m. Name your template Standard Protocol	PiWeb reporting
version of Calypso it is created from, for this guide we are using Calypso 2018)	Unable to save ZEISS templates.     Should the StandardProtocol.ptx template be copied to the directory for the generic temp	lates or to the measurement plan directory?
and select save and PiWeb Designer will open.	Generic templates Measurement plan specific templates	Cancel
Note: If a modified PiWeb template has bee	n created, add and highlight it in the list and select 🚺	one piwer project and modify

**Note:** If a modified PiWeb template has been created, add and highlight it in the list and select opens PiWeb Designer and modify the Header for the variables created.

To view changes to the report in PiWeb Designer select 🔛 Page Preview at the top of the page or press F11 on the keyboard.
<b>Note:</b> The PiWeb report must be closed before editing can continue.

Once in PiWeb Designer select the Pages tab on the left side. Choose the Protocol page that looks like the image on the right. This will display the Protocol page on the right side of the

117% and screen. Start by using the Magnification Slider at the top right magnify the page somewhere between 75 and 200%.

Start by deleting some of the information on the default header that is not required. Leave Drawing Number, Order Number, Variant, and Company so we can modify these for the variables just created. To delete something highlight it and press Delete on the keyboard or right click and select Delete.

**Note:** Holding down **Ctrl** on the keybard while selecting items will select multiple items at once.

ZEISS ZEISS	S Software	efault Hea	der	ZEIS	S Software Would	ed Header Items	Deleted
Part name Drawing number Order number Variant	CAD Cube Demo Program PASSIVE Drawing number Order number Variant	Last 1 measurements ▶ Approval ≠ Blocked		Part name Drawing number Order number Variant	CAD Cube Demo Program PASSIVE Drawing number Order number Variant		
Company		Part ident	If not empty	Company		Part ident	If not empty
Department		Time/Date	Time/Date			Time/Date	Time/Date
CMM Type	CMM Type - CMM Type	Run	Run			Run	
CMM No.	CMM Type - CMM No.	No. measured values	No. measured values			No. measured values	No, measured valu
Operator	Operator	No. values: red	No. values; red			No. values: red	No. values: red
Text		Measurement Duration	MeasurementDuration			Measurement Duration	MeasurementDura

# Adding a Company Logo:







# **Reducing the Header size:**

Start by highlighting all of the items on the right side of the header (Hold Ctrl on the keyboard and select each item) then move them up on the header just below the line under the Zeiss logo. WARNING: after selecting all of the items DO NOT hold **Ctrl** to move them or you will copy them.

Next click on the left hand side of the report in the light blue area so you can see the blue

header line, click the blue box and drag the line until it is closer to Measurement Duration.





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# Adding the Custom Variables to the Header:



Start by selecting Drawing Number (left side), then double click, press delete on the keyboard to remove the existing string (\$) and type in **Job Number: (Note:** do not press enter after typing or an additional line will be added to the text box).

CAD Cube Demo	Program PASSIVE
Trawing number	
Order number	

Next select Drawing Number (right side), then right click and select Variable/Select Variable. In the window that

	Text	• +				
$\langle \rangle$	Variable	•	General	•		
	Border	•	Data provider	•		
	Hyperlink	•	Mathematics	•		
	Edit	•	Tables	,		
×	Delete	Del	Show description Select variable			
	Create element template					

opens type **name** in the search field and look for the **Data Provider/General** section and select **Name-Value-Pair**, for **Key** type in **"u\_Job\_Number"** (Do not forget the "quotation marks") this assigns the variable to the text box (must be

entered EXACTLY as created) then select

ZEISS ZEIS	SS CALY	'PSO				ROL
Part name Job Number:	CAD Cube Demo Program PASSIVE ABC-123		Part ident Time/Date Run No. measured values No. values: red		03 1/28/2019 11:41 AM All Characteristics 58 ● 1	
QC Inspector: Gayle Programmer: Ted						
				Measureme	ent Duration	00:01:20.0
Name		Measured valueNo	minal value	+Tol	-Tol	Deviation +/-
7 01 Flatness of D	atum A D3	0.0042	0.0000	0.0500	0.0000	0.0042

elect variable	Part name
name	Search Field
General	
Number of Number o	f pages with same page <mark>name</mark>
© Report nar	ne
Data provider	
General	
Inspection	plan entity: Name
Name-Value	ue-Pair
Key	"u_Job_Number"

Repeat the above step for the other custom variables:

Replace **Order Number** with **Shift Manufactured** and "u\_Shift\_Manufactured"

Replace Variant with QC Inspector and "u\_QC\_Inspector"

Replace Company with Programmer and "u\_Programmer"

The modified header should look something like this!

# Final Notes:

These are just some basic ways to modify the header. There are many, many more ways to do this, then what has been described in this guide, it is just meant to get you started. This guide is barely scratching the surface of what the PiWeb report can look like.

If using template programs you can add this report to the template program, select the variables (*page 4*), and this will be the default report or an additional report moving forward.

For older programs select this report from Generic Templates, select the variables (page 4), and save the program.

For users with multiple seats of Calypso, the .ptx file does not have to be created on every seat it can be copied and placed in the following path: C:\Users\Public\Documents\Zeiss\CALYPSO\protocol\PiWebReportingTemplates.

For users with multiple seats of Calypso, the userfields.ini (*page 3*) will have to be copied and placed on every PC, C:/Users/Public/Public Documents/Zeiss/CAYLPSO/protocol/protform (backup the userfields.ini in a different location just in case a Calypso update changes it back to the default).

If this modified report is the only report you wish to use go back into Multiple Printout and delete the PiWeb Reporting\_1

StandardProtocol.ptx by highlighting it and selecting cut Printout Element Selected.