PSP TINC.	Document # WI-3.2-002	Revision 1
Precision Swiss Products, Inc.	Effective Date 03/15/23	
Document Title	Document Type	
Setup CMM Program Settings	Work Instruction	

1. Purpose:

The following process will help make sure all CMM Program Settings are set correctly, and the data is routed to the correct dump folders before saving the program to the designated CMM Program Drive on the Network.

2. Scope:

The scope of this process shall apply to all CMM Programs written and run at Precision Swiss Products, Inc. This will ensure a standard PSP PiWeb Report format for text file imports into the High QA Import folder, as well PDF files saved in CMM specific "Results" folders on the designated CMM Program Drive.

3. Terms, Acronyms and Definitions:

- a. **CALYPSO**: CAD-based CMM software that allows you to create dimensional measurement programs from a CAD model based on a customer's inspection requirements.
- b. CMM: Coordinate Measuring Machine

4. References:

a. WI-4.6-003 (Saving CMM Programs)

5. Tools and Equipment:

- a. Latest version of CALYPSO: CAD-based CMM software.
- b. A calibrated Coordinate Measuring Machine (CMM) with a valid asset number.

6. Responsibilities and Authority:

This process will be limited to trained CMM Programmers and authorized Quality Personnel.

7. Inputs:

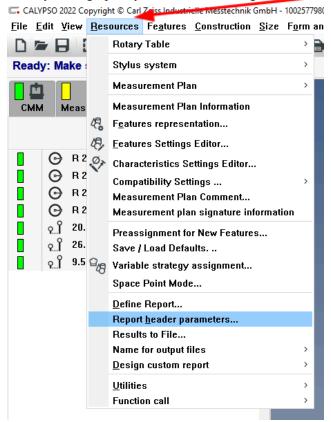
- a. A properly programmed operation/machine specific CMM Program.
- b. StandardProtocol PSP.ptx PiWeb Report Template file.
- c. The **Text string** provided by the High QA rep which has the proper formatting for
- d. dumping/extracting texts files into the "High QA Import" folder on the network drive and in Inspection Manager.
- e. The **PDF string** provided by the High QA rep which has the proper formatting for dumping PDF files into the CMM specific dump folder on the network drive.
- f. Current, Customer Part Information.
- g. CALYPSO: CAD-based CMM software.

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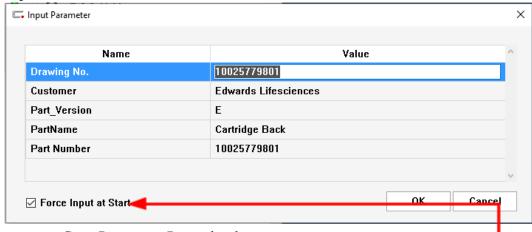
- h. A calibrated CMM with a valid asset number.
- i. A designated CMM Program Drive (i.e. NC Programs (Y:)).

8. Instructions:

1. Start by setting up all your resource settings in the **Resource** dropdown menu.

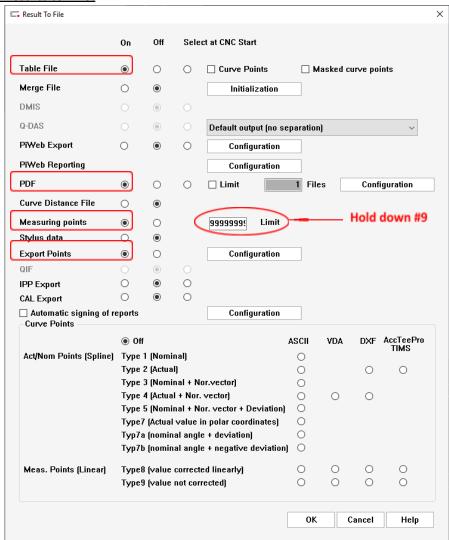


a. Report Header Parameters:

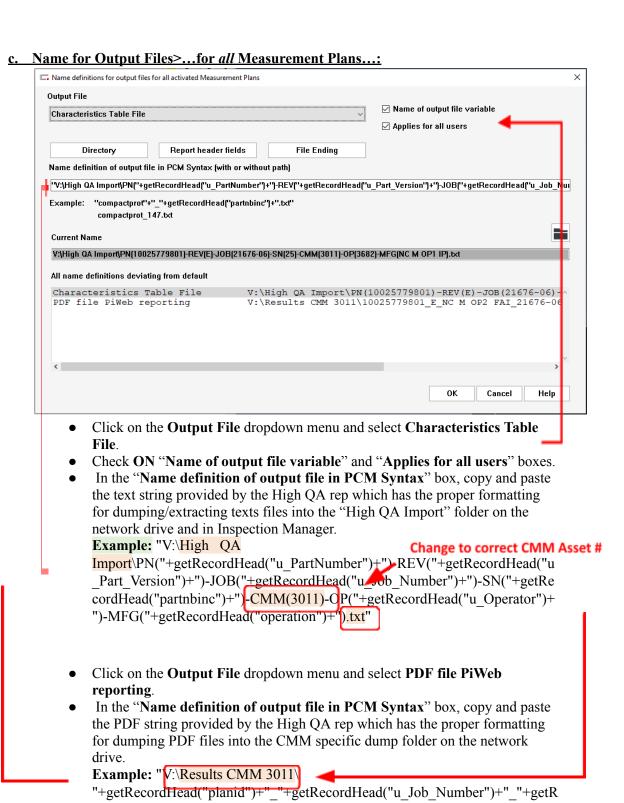


- Go to Resources>Report header parameters...
- Fill in the proper part information and make sure to check **ON** "Force Input at Start".

b. Results to File:



- Go to Resources>Results to File...
- Turn ON: Table File, PDF, Measuring Points, and Export Points.
- For Measuring Points, click in the **Limit** box and highlight the number inside to edit. Then hold down the number nine (9) on your keyboard until the character limit of the box is reached



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ecordHead("partnbinc")+"_"+getRecordHead("u_Asset")+"_"+getRecordHead("u_Operator")+"_"+getRecordHead("u_Inspector")+".pdf

Note 2:

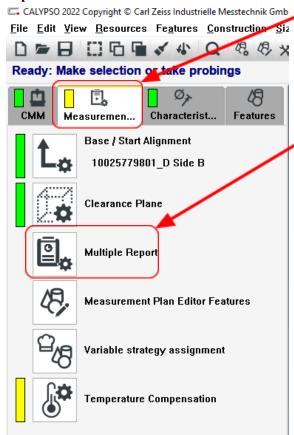
Make sure that "High QA Import" is at the beginning of the text file string and the correct CMM Asset Number (i.e. 3011 is the CMM specific asset number in the example highlighted above) is added and ".txt" is at the end of the string in the locations highlighted above.

Make sure that "Results CMM XXXX" is at the beginning of the PDF file string with the correct CMM Asset Number (i.e. 3011 is the CMM specific asset number in the example highlighted above) and ".pdf" is at the end of the string in the locations highlighted above.

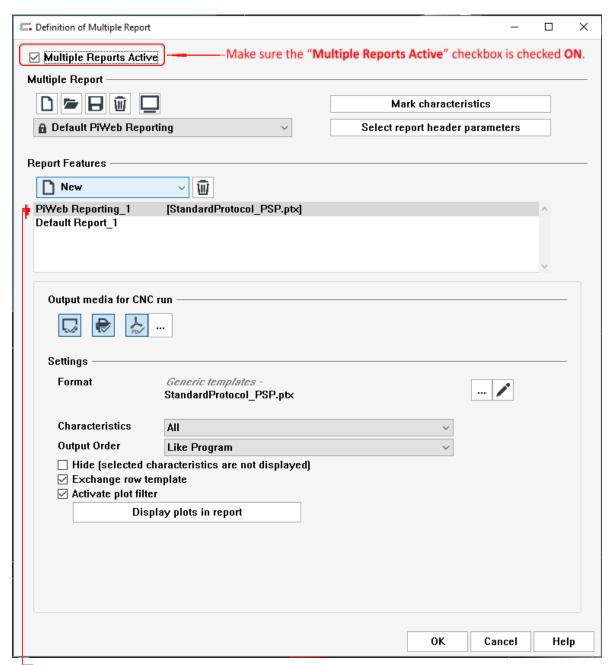
d. Name for Output Files>...for this Measurement Plan...: Name definitions for output files for this Measurement Plan × Output File ☑ Name of output file variable Characteristics Table File ✓ Name from setting for all Measurement Plans Directory Report header fields File Ending Name definition of output file in PCM Syntax (with or without path) "V:\High QA Import\PN("+getRecordHead("u_PartNumber")+")-REV("+getRecordHead("u_Part_Version")+")-JOB("+getRecordHead("u_Job_Nu Example: "compactprot"+" "+qetRecordHead("partnbinc")+".txt" compactprot_147.txt **Current Name** V:\High QA Import\PN(10025779801)-REV(E)-JOB(21676-06)-SN(25)-CMM(3011)-OP(3682)-MFG(NC M OP1 IP).txt All name definitions deviating from default Characteristics Table File V:\High QA Import\PN(10025779801)-REV(E)-JOB(21676-06)-V:\Results CMM 3011\10025779801_E_NC M OP2 FAI_21676-06 PDF file PiWeb reporting

- Check **ON** "Name of output file variable" and "Name from setting for all Measurement Plans" boxes. Checking on these boxes should automatically populate the "All name definitions deviating from default" portion for the text and PDF setting you already did in the "...for all Measurement Plans..." settings in the previous step. If it doesn't, try clicking on both of them so that they are highlighted Blue to activate them.
- If all else fails, refer to your supervisor for assistance.

2. Once your Resource settings are complete, click on the **Measurement tab** and click the **Multiple Report Button**.



This will open the Definition of Multiple Report menu.



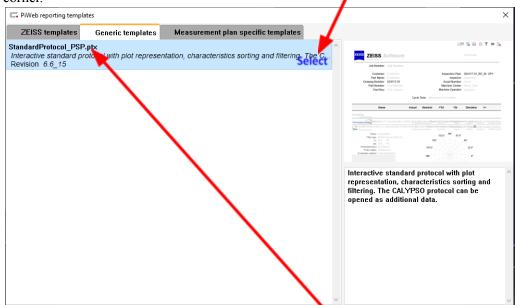
- a. Under the **Report Features** section, make sure there's a **PiWeb Reporting_1** and a Default **Report_1** available. If they're not available, click on the "**New**" dropdown menu and add them.
- b. Make sure the "Multiple Reports Active" checkbox is checked ON.
- c. Click on **PiWeb Reporting_1** so that it's highlighted Blue, then click the ____ button and double check that your text and PDF strings are correct.
- d. Check **ON** the Screen and PDF-File buttons.

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e.	e. Click on Default Report_1 so that it's highlighted Blue.						
f.							
g.	g. Next click on PiWeb Reporting_1 again so that it's highlighted Blue, then click on the						
	"Select report header parameters" Select report header parameters button.						button.
h.							which checkboxes
	are in the "Run" column and which are in the "Measurement" column:						
							,
	-	_					
Rur		Measureme	Parameter Name				Material
	\square		Asset				Material
			Audit-No.:				Measurement type
			Cavity				Nest name
			Clamp ID				Nest number
			Clamp No.				Operation
			Client				Operator —
			Comment:				Order
			Customer				Palette ID
			Customer			\Box	Palette location
			Customer number		Ē	$\overline{\Box}$	Part Name
			Drawing index Drawing No.		Ī	ī	Part Number
			Fixture ID			ā	Part Number
			Fixture No.				Part Version—
			Incremental Part Num	her -	_		PartName
		Ä	Inspector				Reason for inspection
		ī	Job Number				Sample
			Line				Sample number
			Lot ID				Sample size
			Mach_Cntr				Shift
			Machine name				
			Machine number				Signature:
			Manufacturer				Start Comment

i. Click "OK" and go back to the Multiple Report menu.

- 3. Next, make sure that the StandardProtocol PiWeb Report Template is turned on for the proper PiWeb Report format.
 - a. In the Settings>Format section, click on the ____ button.
 - b. Click on the "Generic Templates" Tab, then hit the blue "Select" in the bottom right-hand corner.



- c. Make sure the title of the generic template is "StandardProtocol PSP.ptx".
- d. Once selected, close out the PiWeb Reporting Template menu.
- 4. Click "OK" in the Multiple Report menu, then save your changes in the CMM Program. If it is the first time you're saving this program and it's not already in the Network CMM Program Drive, follow the steps in the "Saving CMM Programs WI".

Note 3:

If the "StandardProtocol_PSP.ptx" is not available, see the "Loading PSP StandardProtocol PiWeb Report ptx Template WI" for how to load it.

Note 4:

You'll need to run a report to check and see if your PiWeb Report template is now in the correct format.

9. Quality Records:

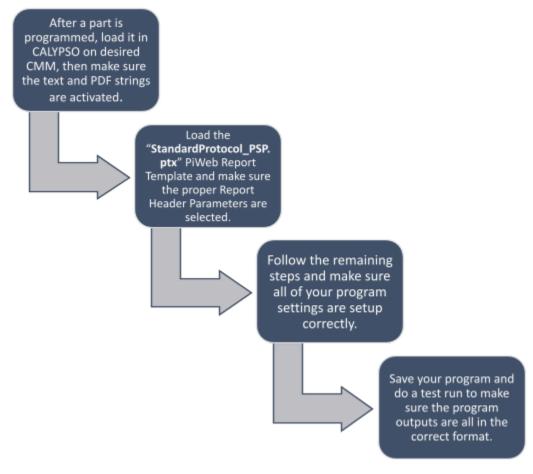
a. PiWeb CMM Report in text and PDF format stored in the "High QA Import" and CMM specific "Results" folders on the designated CMM Program Drive.

Record Name	Owner	Location	Record Media
PiWeb Report Text Doc		zeiss (\\psp-hq-fs1) (V:)	Electronic
PiWeb Report PDF Doc		NC Programs (Y:)	Electronic

10. Outputs:

The following process will help to make sure all your CMM Program settings and formatting are set correctly and consistently throughout all CMM Programs on the Network, and the data is routed to the correct dump folders before saving the program on the Network Drive.

11. Flow Chart:



Revision History			
Revision	Description of Change	Approver	Effective Date
1	Initial Release	Daniela Kozar	03/15/23