



AdvancedReportV2 **Temperature Uniformity** Survey

YOKOGAWA Deutschland GmbH Broichhofstraße 7-11 40880 Ratingen / Germany Tel. +49 - 2102 - 4983 - 0

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1. Introduction

The leading players from the aviation industry have set up a program for common working and management practice, under the name "Nadcap" (National Aerospace & Defense Contractors Accreditation). A part of the program is dedicated to the registration and documentation of component testing.

The program "TUSReport" [TUS = Temperature Uniformity Survey] for Microsoft Excel outputs the collected data from the test protocol and generates a report as documentation of the conducted test.

A requirement for these functions is the existence of the displays data files and/or the Event display files in a file on the windows PC. Through the FTP-client, a function of the Yokogawa recorders it is possible to store the files on the PC. An FTP-server program is required on the windows computer. This is a standard component in the Windows XP and all newer Windows operating systems as a special feature which requires activation. In other operating systems, the use of freeware or shareware FTP server is recommended. You can find further information in the user manual of the recorder or on our webpage.

For updates and changes about the program, please read the info file stored in the installation folder or contact your Yokogawa sales team.



Note: Please read this manual to find solutions!

2. **Revision**

Date	Version	Detail
05.2013	1	First creation TUSReport Version 2
09.2013	2	Update Recorder List and some chapter.
11.2013	3	Update Recorder List and some chapter.
01.2014	4	Update some chapter
04.2015	5	Updated some chapter

3. System Requirements

3.1 Hardware

For the documentation of the test, a paperless Data recorder is required. The Data recorders listed below are supported by the Add in:

Recorder	File extension	Data type
GX20 / GP20	.GDS	Display Data
www.smartdaq.com	.GEV	Event Data
DX100 / DX200	.DDS	Display Data
	.DEV	Event Data
DX1000 / DX1000N / DX2000	.DAD	Display Data
[DXAdvanced]	.DAE	Event Data
www.DAQStation.com		
DX1000 / DX1000N / DX2000 R4	.DSD	Display Data
[DXAdvanced R4]	.DSE	Event Data
FX100	.DDS	Display Data
	.DEV	Event Data
		Display Data
DATOUR / DAZOUR		Event Data
Phaima-model	.DDE	
MW100 / MX100	.MXD	Data

For the analysis using a PC, the following minimum hardware requirements must be met.

• Hard disk capacity: 13 MB

• Memory: 1GB

4. **Starting the program**

The program shows the header "TUS-Report" in the Menu bar of Microsoft Excel.

The program is controlled via the add-in menu:

- Uniformity survey report
- Furnace Template
- T/C Correction Factor
- Settings
- Info Manual

		00
Furnace Templates - Correction Factor	4 A A	?
	*	•
Start Report> Messdaten einfügen> G Korrekturf	faktoren einpflegen> 🛷 Report fertigsteller	
Ofen Vorlage	_	
	Übersicht	Fusszeile
Company Name	▼ sichtbar	📄 sichtbar
Company Performing Survey	🔽 sichtbar	🔲 sichtbar
Certificate No.	I sichtbar	📄 sichtbar
Furnace Name	🗐 sichtbar	🔽 sichtbar
Furnace Location	V sichtbar	sichtbar
Furnace Serial No	▼ sichtbar	sichtbar
Charge Number	V sichtbar	🔲 sichtbar
Survey Recorder	💟 sichtbar	🔲 sichtbar
Survey Type	V sichtbar	🔲 sichtbar
T/C Set	⊘ sichtbar	sichtbar
Date Next Due	V sichtbar	sichtbar
Approved for Use	✓ sichtbar	🔲 sichtbar
Engineer	V sichtbar	sichtbar
Approved by		sichtbar
and Vale Providence Science and American Science Scien		

The individual menu items are explained in the following chapters.



Tip:

After successful installation, please check your settings (Menu item "Settings").

5. Settings

Items under the menu choice "Settings" must be processed before the report creation.

Using the "Save", "Cancel" and "Transfer" buttons, the settings are confirmed/rejected and are then made available in the report.

5.1 Data File informations

TUSReport by Yokogawa			
Yokogawa 🔶			
Data File Inform	ations	🛃 🗠 😣	
 Data File Informations Detail Information Field Comments 	Data File Informations		
Other Color	Default Data Directory		
 License 	Default Taget Directory		
	Default file name SO		
	Default Viewer DX(Advanced) Default Viewer Software MW100		
Tab "Report detai	ls"		

5.1.1 Template, Directory

In order to customize reports to your specific needs reports can have special header sheets applied.

Under "default template" a Excel sheet can be defined as the default template. At the report generation the template can still be changed for another.

The standard template defines the folder location to look for the data file and where to send the completed report.

These settings will also be requested / confirmed during the composition of the report.

With "Report filename" the name of the finished report is defined.

se the following sig	gn for a predefined name:
\$T01 bis \$T14	Entry of the 14 user definable text fields
\$HH	Hour of the first file
\$mm	Minute of the first file
\$SS	Second of the first file
\$DD	Day of the first file
\$MM	Month of the first file
\$YY / \$YYYY	Year of the first file (08 or 2008)
\$O	Original file name of the first file

Us

In the expanded display, the stabilization point is shown for each file in the report.

Insert the path to the Software DAQStandard Viewer into the "Viewer"-Text field.

5.2 **Textfields (Fields)**

USReport by Yokogawa				
Yokogawa 🔶				
Detail Informatio	on Field			M - C
	Jii i ieiu			
Data File Informations	Detail Information Field			
Detail Information Field			Overview	Footer
Other	Detail Information Field 1	Company Name	Visible	Visible
Color	Detail Information Field 2	Company Performing Survey	Visible	Visible
License	Detail Information Field 3	Certificate No.	Visible	Visible
	Detail Information Field 4	Fumace Name	Visible	Visible
	Detail Information Field 5	Furnace Location	Visible	Visible
	Detail Information Field 6	Furnace Serial No	Visible	Visible
	Detail Information Field 7	Charge Number	Visible	Visible
	Detail Information Field 8	Survey Recorder	Visible	Visible
	Detail Information Field 9	Survey Type	Visible	Visible
	Detail Information Field 10	T/C Set	Visible	Visible
	Detail Information Field 11	Date Next Due	Visible	Visible
	Detail Information Field 12	Approved for Use	Visible	Visible
	Detail Information Field 13	Engineer	Visible	Visible
	Detail Information Field 14	Approved by	Visible	Visible
	Default	Add Date to fo	poter	
	Donadit	🗸 Add File Nam	e to footer	
TI E ' II				
enulad "Field	settings"			

5.2.1 Free defined Labels

There are 14 user definable text fields available for selection. These can be displayed in the test overview or footer of the report. The position of these fields in the report can be set using the checkboxes.

If the checkboxes unchecked or the text field is empty, in the main form the text field is invisible.

5.2.2 Put file name and date into footer

Please check these fields to put the information into the footer of each page.

5.1 Comments

TUSReport by Yokogawa					
Yokogawa 🔶					
Comments				2 -> 😢	
	Commente				
Data File Informations	Comments				
Comments	-				
Other	Comment 1	Comment 1	Visibl	le	
Color	Comment 2	Comment 2	Visibl	le	
License	Comment 3	Comment 3	Visibl	e	
	Comment 4	Comment 4	Visibl	e	
	Comment 5	Comment 5	Visibl	e	
	Comment 6	Comment 6	Visibl	e	
	Comment 7	Comment 7	Visibl	e	
	Comment 8	Comment 8	Visibl	le	
	Comment 9	Comment 9	Visibl	le	
	Comment10	Comment 10	Visib	e	
				, ii	
Comments" tab					

5.1.1 User definable comments

For better definition of comment fields in the main body, extended comments can be entered here.

If the text field is empty, in the main form the comment field is invisible.



5.2 Other

TUSReport by Yokogawa		
YOKOGAWA 🔶		
Other		2 3
 Data File Informations Detail Information Field Comments Other Color License 	Temperatur Unit °C Advanced View 📄 Stabilisation Factor 0.2	
Setting tab Data file"		<u>ل</u> ا

If a DXAdvanced is chosen, there is the additional possibility to enter channel calibration correction data into the test (CC1 option).

5.2.1 Temperature unit

If another temperature unit is required, this can be entered here [DegC; °F].

5.2.2 Stabilisation Factor

With the stabilisation factor the maximum divergence of the measuring value is defined over a period of 6 minutes.

5.3 Chart



5.3.1 Color settings

With this tab it is possible to change the line colors for the charts. The Min/Max values colors are settings with the Color Table value.

5.3.2 Line strength

The line strength of the individual trend lines can be between 4 strengths can be selected.

5.3.3 Zoom range

The zoom factor defines the range over and under the test temperature. The value Null set the factor to default.

5.4.1 Overview page

The results of each test will be shown on one sheet as default. By changing this option it will be create a separate overview page for the each test.

5.4.2 Show extended data sheet / Advanced View

By activation of these functions, the software put more information into the report sheets.

5.4.3 Tag/Name

If the appropriate channels have been given tag names, these will be shown in the report. If no tag names are defined, the channel number will be shown instead.

5.4.4 Manual stabilisations selection

With the stabilization selection, it is possible to the stabilization time manual. The calculated stabilization time will be set as default value.

6. **Furnace templates**

With the furnace template it is possible to create a template for a lot of furnace with different settings.

Use the button Add, Change, delete and Save to modify the entry values for the different furnaces.

Furnace				
Yokogawa 🔶				
Sample_1 🚦 🚺	🞽 🕥 Sample_	1		
Sample 1	umacer Informationen Measureme	nt Data Report Settings		_
Sample_2	- Nodela on to			
Sample_3	Company Name	Yokogawa Deutschland	Visible	Visible
	Company Performing Survey	BestFurnaceCompany	Visible	Visible
	Certificate No.	Cert. ABC123	Visible	Visible
	Furnace Name	Fumacer Number 1	Visible	Visible
	Furnace Location	Station 3	Visible	Visible
	Furnace Serial No	SER12345	Visible	Visible
	Charge Number	CUST20130405	Visible	Visible
	Survey Recorder	Yokogawa DXAdvanced	Visible	Visible
	Survey Type	Periodic	Visible	Visible
	T/C Set	XYZ	Visible	Visible
	Date Next Due	10/12/2013	Visible	Visible
	Approved for Use	500Deg C - 2100 Deg C	Visible	Visible
	Engineer	D. Jones	Visible	Visible
	Approved by	M. van Cleve	Visible	Visible
-1				
экодаwa				

There are 14 user definable text fields available for selection. These can be displayed in the test overview or footer of the report. To setup more than one Furnace Template use this tab.

Check chapter [5.2 Textfields (Fields)] for setting different text items for the report header.



Furnace					→ □ - X	
• •						
Sample_1 🔂 🚺	Z Sample_1				N	
Sample 1	umacer Informationen Measurement	Data Report Settings				
Sample_2						
Sample_3	Measurement Counter	6 🌩				
		Test Temp.	Uniformity	Controller Setpoint		
	Temperature Value	750	2	750	recovery test	
	Temperature Value	850	3	850	recovery test	
	Temperature Value	950	3	950	recovery test	
	Temperature Value	1050	3	1050	recovery test	
	Temperature Value	1150	3	1150	recovery test	
	Temperature Value	1250	3	1250	recovery test	
	Temperature Value				recovery test	
	Temperature Value				recovery test	
	Temperature Value				recovery test	
	Temperature Value				recovery test	
	Temperature Value				recovery test	
	Temperature Value				recovery test	
′okogawa						

To set the different temperature settings and tests, use this tab.

🖪 Fumace	
YOKOGAWA 🔶	
Sample_1 🕂 🤷	Sample_1
Sample_1	Furnacer Informationen Measurement Data Report Settings
Sample_2	
Sample_3	Excel Template C:\Users\Public\
	Configuration File DXAdvanced (CC1) C:Users Y-DBio Lueskop (105 Hport_sample sample_1CC1 DXA_/50)
	Default Data Directory C:\Users\Public\Desktop\TUSReport_Sample\sample_1
	Default Taget Directory C:\Users\Public\Desktop\TUSReport_Sample\sample_1
	Stability period 30 🚖 💌 🧭 Set Corretion Factor for each sensor
	Data period
	Channel exclude 1
	Sample: 12 13 14 40 41
	Group Channel include 20 21 22 23 24 25 26 27 28 29 30
	select Channel
Yokogawa	H.
Report layout	

On this tab it is possible to setup a different default template for each test/furnace. Also the stabilization test period is setup on this tab.

To exclude some channels, add the channels into the text box. The selected channels are not shown in the report.

Separate each channel with a pipe sign (|).

7. **Correction Factor templates**

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With the correction factor template it is possible to create a template for a lot of different thermo couples.

Use the button Save and Cancel to modify the entry values for the different thermo couples.

Calibration Factor										↓ E		
Yokogawa 🔶												
Sample 🕂 🙆		Sampl	e									8
Sample												T
		Serial No	1	2	3	4	5	6	7	8	9	10
	•	Serialno1	0.1	0.2	0.3	0.4	0.5	0.6	0	0	0	0
		Serialno2	0.7	0.8	0.3	0.1	0.11	0.12	0	0	0	0
		Serialno3	0.11	0.22	0.33	0.44	0	0	0	0	0	0
	*											
	•											4
3												
Correction factor	table	;										

With this table it is possible to define 20 different < Thermo couple with Serial number an 12 temperature entry.

On Tab 2 of the creating report Form it is possible to select different Thermo couple. It is also possible to write manual settings into the fields.



TUSReport for NATCAP by Yo	kogawa				
				+	YOKOGAWA
Start your report> 1 Insert	measurement	data>	រៀ insert	correctio	1 factor> ✓ Finalize your report 11 12 4/5/6/7/8/9/10
Correctionfactor Template	es Sample Sample				
	500°C	750°C	950°C	1190°C	
SURVEYT/C	▼ 0	0	0	0	
SURVEYT/C	▼ 0	0	0	0	
SURVEYT/C	▼ 0	0	0	0	
SURVEYT/C	▼ 0	0	0	0	
SURVEYT/C	▼ 0	0	0	0	
URVEYT/C	▼ 0	0	0	0	
LOADT/C	▼ 0	0	0	0	
URVEYT/C	▼ 0	0	0	0	
SURVEYT/C	▼ 0	0	0	0	
okogawa					
election Combo	box				

8. Create Report/Test Protocol

Under the menu item "Uniformity Survey Report", the test protocol is created.

The report assistant takes you through each point of the test protocol. There are three screens shown in total.

The individual settings are requested and checked for completeness.

8.1 Main

The highlighted window consists of two entry fields. The first part defines the free text fields. How to modify free text fields can be found in "Options" [5.2]. Use the combo box to change the entry.

The second part defines the measurement data's common settings.

Each threshold has its own temperature, the maximum permissible deviation and the set point of the furnace temperature controller.

ort for NATCAP by Yok	ogawa		
r report> © Incert r		YOKOGAWA 🔶	
Furnacer Templates	last data		
a b	Sample_2	Overview	Footer
Company Name	Sample_3	Visible	VISIDIE
Contraction No.	DestrumaceCompany	Visible	Visible
Certificate No.	Empore Number 1	Visible	Visible
Furnace Name	Station 3	Visible	Visible
Furnace Location	SED10245	Visible	Visible
Chases Number	CUST20120405	Visible	VISIDIE
Charge Number	Valuation DVAlumeand	Visible	VISIDIE
Survey Recorder	Periodic	Visible	Visible
Survey Type	VV7	Visible	Visible
Data Next Due	10/12/2012	Visible	VISIDIE
Approved for Line	500Deg C - 2100 Deg C	Visible	Visible
Approved for Use		Visible	Visible
Approved by	M van Cleve	Visible	Visible
Approved by	M. van Geve	☑ Visible	Visible
			.::
n" tab			



Up to 12 test points can be entered.

I TUSRe	port for NATCAF	o by Yok	kogawa								c – C		ſ
						1			YOKOGAWA				
ø Start y	our report> 🏾 🍞	Insert n	neasurement	data>	insert co	rrection factor>	🗸 Finaliz	e your report					
								Measurement					
	Measurement Co	unter	4 😴	mite el	Controller Set	anint			Stability p	period 30	*		
Te	emperature Value	500		3	500	point			Data p	period 1	•		
Te	emperature Value	750		3	750		=		Set Timestamps man	nually 📃			
Te	emperature Value	950		3	950								
Te	emperature Value	1190		3	1190				Observation 1			_	
Te	emperature Value							Group	Channel exclude				
Te	emperature Value												
Te	emperature Value												
Te	emperature Value						Ŧ						
						Excel 1	emplate	C:\Users\Public\	Desktop\TUSReport_Sample\sample_3\TU	JSTemplate.xl	lsx		
					Configu	ration File DXAdvance	d (/CC1)	C:\Users\Public\	Desktop\TUSReport_Sample\sample_3\cor	nfig for 40 tes	st.PDL		
	lata mes											-	
File-Nan			Recorder Typ	Serial N	lo Sti	art-Time	End-Time	00.07.20.00.000	File Path				
000040	_N-02-00-0036.DAE		DA2000	30000	3433 20	.04.2006 17.23.30.000	23.04.20	00 07.30.00.000	C. (Users (Public (Desktop (105hepoit_5an	npie vs			
												_	
		1			1		1					_	
~	Κ.									\triangleleft			
Yokogaw	/a											.:	
"Mair	n" tab												
man													

data files			2						
File-Name	Recorder Typ	Serial No	Start-Time	End-Time	File Path	File Type: Device Type:	Event File DX2000		
000040_R-02-08-0038.DAE	DX2000	S5G505495	28.04.2008 17:23:30.000	29.04.2008 07:30:00.000	C:\Users\Public	Serial No:	S5G505495		
						Meas. Ch. Count:	10		
						Ext. Ch. Count:	0	1	
						Data Count: Start Time:	1694 28 04 2008 17:23:30 000		
						End Time:	29.04.2008 07:30:00.000	Ŧ	
× .									-
okogawa								.:	
Add files									

Using the data files button selects the data. The "Open data" window shows, when a point is selected, a small sample of the general data information. If an incorrect value is recognized, this field will be shown in red.



Tip:

Use the Drag and Drop function for an easy file selection.

If the DXAdvanced recorder selected, it is possible to add the configuration file with the CC1 option data. There is a separate page printed in the report for these details.

If it is necessary to enter additional correction factors, the checkbox "Correction factor" needs to be activated. With this function, the correction factor for each channel should be entered on the next page.

Activating the Checkbox "One correction factor per T/C set" reduces the number of correction factors per channel to one only.



The stability time defines the minimum duration of the stability in the respective temperature-profile.



Tip:

Most of these entries will be saved and with new tests it will not be necessary to re-enter all details.

During the test interval, data reduction takes place to simplify the report. Only the data in this interval are portrayed in the report. In addition all further relevant data outside of this interval are considered in the report and are portrayed in the overview.

Channel exclude	1	
Group Channel include	1 11 12 4 5 6 7 8 9 10	
Select different exclu	Ide Channel	

8.2 Thermocouple Correction factor

If all values are correctly entered, use the "Next" button to continue.

In this window a serial number must be entered for each thermocouple. A separate text box is shown for each channel.

If the checkbox "Correction factor" is activated, a textbox for each sensor at each measurement point is shown. The correction factors must be entered for each measurement point.

TUSRepor	t for NATCAP by Yoko	gawa	3				
						1	YOKOGAWA
Start your Set Corre	tion Factor for each sensor	easur	ement d	lata>	ų insert	correctio	n factor> V Finalize your report 11 12 4 5 6 7 8 9 10
(Correctionfactor Templates	Sam	ple				
			500°C	750°C	950°C	1190°C	
SURVEYT/C	Serialno 1	-	0.1	0.2	0.3	0.4	
URVEYT/C	Serialno2	-	0.7	0.8	0.3	0.1	
URVEYT/C	Serialno3	•	0.11	0.22	0.33	0.44	
URVEYT/C	Serialno3	•	0.11	0.22	0.33	0.44	
JRVEYT/C	Serialno3	-	0.11	0.22	0.33	0.44	
JRVEYT/C	Serialno3	•	0.11	0.22	0.33	0.44	
LOADT/C	Serialno3	•	0.11	0.22	0.33	0.44	
IRVEYT/C	Serialno3	•	0.11	0.22	0.33	0.44	
URVEYT/C	Serialno3	•	0.11	0.22	0.33	0.44	
×							
ikogawa		-					
ensor	correction	tac	ctors	S			

8.3 Enter comments

The final window of the "report assistant" defines the comment fields. Definition of "free comment" fields can be found in "Settings" in section [5.4]

There are six fields which can be added. The first three are single sentence fields. In the remaining three, larger comments or notes can be added.

TUSReport for N/	ATCAP by Yo <mark>kog</mark> awa		
			YOKOGAWA 🔶
Start your report	> 👘 Insert measurement data> 📮	insert correction factor>	✓ Finalize your report
Comment 1	Comment 1	Comment 6	Comment 6
Comment 2	Comment 2	Comment 7	Comment 7
Comment 3	Comment 3	Comment 8	Comment 8
Comment 4	Comment 4	Comment 9	Comment 9
Comment 5	Comment 5	Comment 10	Comment 10
Yokogawa			
"Comment	s" tab		

The comments are shown in the respective templates.



				E		
YOKOGAWA 🔶						
	S	tabilisat	on time (750)			
Filename						
Name	Recorder	Serial No	Start	End		
000040_R-02-08-0038.DAE	DX2000	S5G505	28.04.2008 17:23:30.000	29.04.2008 07:30:00.000		
					-	
•	III			•		
msgSetStabpoint						
29.04.2008 03	3:09:00	>	29.04.2008	03:09:00		
	29.04.2008	0	3:09:00			
				× ×		
et time manual	ly					

8.4 **Create test protocol**

After pressing "Create report" the test will be run in the background. A file with the following data sheets is generated:

- Cover sheet with graph
- Test_Data •
- Overview ٠
- DXA_CC1 (if selected) •
- Actual temperature data in Tabular form •
- Actual temperature data in graphical form ٠



	Mic	rosoft Exce	el - TUSTen	nplate1							▋┗┛╚		
·변	6	ile <u>E</u> dit <u>V</u> i	iew <u>I</u> nsert	F <u>o</u> rmat <u>T</u> ools <u>D</u> ata	Window <u>T</u> US-Report	Help	Ado <u>b</u> e Pl	DF T	ype a ques	tion for hel	· - ·	9 ×	
1) 🖸	j 🖌 🔓 🕯		🍄 🚉 🌡 🗈 🖺	• 🏈 🖻 • 🔍 • 🛯 •	δ -	A Z ↓ A ↓	1 🛄 🤻	100%	• 🕐 🚽			
Ar	rial		• 10 •	BIU∣≣≣	≣ 鄭 % ,	00. 0.⇒ 0.≪ 00.	<	• 🖽 •	💩 • <u>A</u>	• -			
1	1 2	'ı 'lı 🖉 🤇	d 🖄 🖉	5 🛛 🖣 🔂 🔫	Reply with Changes En	d Review				1	2 -		
_	В	340 👻	fx	Serial Number 10									
	-	A	В	C	D	E	F	G	H	1	J	-	
1	0	ofen-Ter	nperatur	rstabilität Ubers	icht								
2	Te	est	Stabilität	Test Start Datum	Test End Datum	Record	ler Seri	en Num	1			- 11	
4	75	50 °C	+/- 6 °C	30.11.2006 09:24:56	30.11.2006 10:02:04	S5F105	5492	en nun				- 11	
5	85	50 °C	+/- 6 °C	30.11.2006 11:40:28	30.11.2006 12:26:08	S5F105	5492						
6	95	50 °C	+/- 5°C	30.11.2006 13:16:16	30.11.2006 13:58:08	S5F105	5492						
7	10)50 °C	+/- 5°C	30.11.2006 13:58:28	30.11.2006 14:47:32	S5F105	5492						
8	11	50 °C	+/- 5°C	30.11.2006 14:47:44	30.11.2006 15:55:16	S5F105	5492					_	
9	12	250 °C	+/- 5°C	30.11.2006 15:55:28	30.11.2006 16:36:20	S5F105	5492					_	
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The calculation results will be displayed on the overview page.



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Data for the CC1 Option are displayed on the sheet DXA_CC1.

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A tabular and graphic representation of all readings of the respective data files is portrayed on the following pages.

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9. Generating Excel templates

Through the report-function Excel Template it is possible to use all functions of MS Excel. For simple generation of the templates there is a "Template assistant".

9.1 Creating a template

Having clicked on "Template creator" there will be a window shown with the device information.

In this window, all information relating to the specific recorder data is listed.



With the Drag & Drop functionality, you can add information to the Excel sheet.



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Drag & Drop				

The entry is indicated by a small triangle in the upper right hand corner. Clicking on this triangle will highlight the field.

The first two sheets of a template-file are supported.



Note:

Each value can be used only once per sheet!

The template can be saved and used in Excel Default File format or as Excel template format.

9.2 Custom design template header/footer

It is also possible to create a separate sheet for the automatically generated report sheet.

Create a template file with the following separate sheets.

Name the sheets:

- TEST_DATA \rightarrow the report sheet with the test data
- OVERVIEW \rightarrow the report sheet with the result overview
- _DATA \rightarrow the report sheet with the temperature values, e.g. 750_DATA

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Sep	Separate sheets for the auto generated sheets									

To put the report on the different place like the cell 'A1' (default) use the cellname "advpagestart". You will find this placeholder in the template creator.

Also it is possible to put every other information from the template creator on every sheet in the report.

9.3 How to Check, Change or Delete the Cell Name in Excel?

To check all the correct Values implemented by the template creator, please use the following routine:

It's easy to name a cell. You click on the cell, put the cursor in the "Name Box" to the left of the Formula Bar (see image below), type a name, and press Enter. Then you can reference that cell in other parts of the workbook.

In the example below we have named the cell "Sub1" because we will reference this Subtotal in a Summary worksheet.



Ce	II Name in Name Box	Form	ula Bar	
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1	A	В	С	D
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2	1st Quarter	\$2,203		
3	2nd Quarter	\$1,004		
4	3rd Quarter	\$2,041		
5	4th Quarter	\$1,367		
6	Total	\$6,615		

However, after naming a cell, it seems like Excel won't let you delete or change the name! If you click in the Name Box and type over the name or delete the name, nothing happens! The name remains.

So, how do I change a cell name? How do I delete a cell name? It's pretty easy ... it's iust hidden!

To delete or change a cell name, click the Formulas tab. Then click Name Manager on the "Defined Names" group of the Formulas ribbon.

The Name Manager window displays and lists ALL of the cell names that have ever been defined in the worksheets in that workbook.

To delete a cell name, click on the cell name and click Delete button.

To change a cell name, click on the cell name, click the Edit button, Change the name and click OK. When finished, click Close.



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9.4 Example data

After the installation of the software, some example templates are made available in the installation menu.

10. Error handling

If an error is recognized in the conversion or in general running of the program, this is indicated by an "Alert window" and registered in the error log.



Note:

- 1. Please read this chapter to solve the problem.
- 2. Use the Error Handling routine before calling your Services Team.

10.1 Solve Problem by yourself

"I installed my Office solution (VSTO add-in) successfully but when I open the Office application, my add-in does not load. What is the problem?"

This is a common question which I came across many times in Forums. Here are simple and quick checks that you can do before you start scratching your head or jump to the Forums. I'll be using Excel as the Office application, but the approach is applicable to others more or less.

10.1.1 Check out "COM Add-Ins" dialog in Excel

Now open Excel and see if your add-in loads successfully. If not, open Excel Options dialog (File->Options) and navigate to Add-Ins tab.

Excel Options	
General	View and manage Microsoft Office Add-ins.
Formulas	
Proofing	Add-ins
Save	Name A Location Type A
Language	Team Foundation Add-in "C:\\CommonT\IDE\PrivateAssemblies\TFSOfficeAdd-in.dll" COM Add-in C:\\CommonT\IDE\PrivateAssemblies\TFSOfficeAdd-in.dll" COM Add-in C:\.Program Files (x86)\TUSReport2XX.AddInConnect C:\Program Files (x86)\TUSReport2\TUSReport2XX.dll Excel Add-in C:\.Program Files (x86)\TUSReport2\TUSReport2XX.dll Excel Add-in C:\.Program Files (x86)\TUSReport2\TUSReport
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	Manager Excel Add-ins Excel Add-ins
	COM Add-ins 4 Actions OK Cancel
	XML Expansion Packs
	Disabled Items

* Co-innovating tomorrow *



"Healthy add-ins" show up as "Active Application Add-ins", however, if an add-in is disabled for whatever reason, it will appear under the "Inactive Application Add-ins". You can select the "COM Add-ins" from the Manage dropdown at the bottom of this dialog and see the LoadBehavior of all COM add-ins. In normal cases, the add-in should be checked and its "Load Behavior" should be "Loaded at Startup":

COM Add-Ins	B) ? X
A <u>d</u> d-Ins available:	ОК
Excel207AddIn	
Send to Bluetooth	Cancel
Team Foundation Add-in	
Visual Studio Tools for Office Design-Time Adaptor for Excel	Add
Vokogawa AdvRpt COM Add-In for Excel	<u>A</u> uu
V Yokogawa.TUSReport2	Bomouro
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	5
Location: C: \Program Files (x86)\TUSReport2\TUSReport2.vsto vstolocal	
Load Behavior: Load at Startup	



If the VSTO runtime encounters a problem loading the add-in, you'll see this message instead.

"Load Behavior: Not Loaded. A runtime error occurred during the loading of the COM Add-in".

10.1.2 Find the problem

Set the "VSTO_SUPPRESSDISPLAYALERTS" environment variable to 0. Then go back to the registry key I mentioned in step 1 and set the LoadBehavior to 3. Now restart the Excel. You should be able to see a dialog describing what is happening:

icrosoft Office Application Add-In	<u>E</u>
An unhandled exception occurred in your application. C author of this document for further assistance.	ontact your administrator or the
<u>Details</u>	ОК
This is an intentional exception injected for demonstratio	n purposes!

System Exception: This is an intentional exception inject purposes!	ed for demonstration
at MyExcelAddin.ThisAddln.ThisAddln_Startup(Object \users\haahmadi\documents\visual studio 2010\Projec \MyExcelAddin\ThisAddln.cs:line 16	: sender, EiventArgs e) in c: ts\new\MyExcelAddin
at Microsoft. Uffice. I ools.Addinimpl.UnStartup() at	<u>.</u>

It is also a good practice to enclose the code inside the add-in's startup event in a try-catch block and log all exceptions.

10.1.3 Make sure your add-in is installed correctly and it is enabled

Open registry editor and navigate to

"<u>HKEY_CURRENT_USER\Software\Microsoft\Office\Excel\Addins</u>". Here is how this registry key looks like after I installed MyExcelAddin:

🖉 Registry Editor			
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📧 👍 Common 🛛 🔺	Name	Type	Data
🕞 🔓 Excel	>b (Default)	REG_SZ	(value not set)
E Addres	- Description	REG_SZ	MyExcelAddn
Mcrosoft.Visualt	ab PriendyName	REG_SZ	MyExcelAddin
MyExcelAddn	LoadBehavior	REG_DWORD	0:00000003 (3)
Cutlook	Markes?	REG_SZ	File:///c:/users/haahmadi/documents/vaual-studio-2010/Projects/new/MyExcelAddin/MyExcelAddin/Debug/MyExcelAddin.vsto
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The registry string we are interested in the most is the LoadBehavior. Whenever you see "3" (Loaded at Startup) as the value of this string you are good in this part and your add-in tries to load when the Excel starts. For more information about registry entries for application-level Office solutions see <u>this article</u> on Microsoft site.

http://msdn.microsoft.com/en-us/library/bb386106.aspx



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