



# ZEUS® PRODUCTION DATA CAPTURE

**REPORT BOOKLET** 







### >>> ZEUSX PDC Report Booklet

Version: 0.1 dtd. September 16, 2020

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#### 1 General

The present document contains a selection of sample PDC reports including

- standard reports
- >>> reports extended resp. created with the Report Designer
- evaluations of PDC information
- graphical analyses created in Excel based on data retrieved from PDC information

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#### 2 Sample reports relating to "Cost Centre Recording"

#### 2.1 Cost centre analysis with staff

This report is grouped by cost centre and shows the employees' total time booked on the corresponding cost centre (CC) within the selected time range. Furthermore, it reveals the time total per cost centre and, at the bottom of the list, the grand total of all cost centre sub-totals.

Cost cer			
	iter: 100 Sales department		
Personal	number Name, first name		PDC time
1005	White, Matthew		22.17
1012	Miller, Benjamin		135.58
1021	Sanchez, Samuel		129.55
1022	Perez, Emely		6.47
1025			125.42
	Lee, Michael		120.42
100 Sales	department		
		Total	420.39
Personal	nter: 130 Purchase Departm	ent	PDC time
1005	White, Matthew		2.54
130 Purc	hase Department		
2000	and the second second	Total	2.54
		10101	2.07
Personal 1025 1026	Lee, Michael Martinez, Dylan		7.10 7.45
140 HR d	epartment		
	*100000	Total	14.55
		1000	14.55
Cost cer	nter: 150 IT department		
Personal 1004	number Name, first name Young, Anthony		7.46 25.41
Personal 1004 1026	number Name, first name Young, Anthony Martinez, Dylan		
Personal 1004 1026	number Name, first name Young, Anthony	Total	7.46
1004 1026 150 IT de	Name, first name Young, Anthony Martinez, Dylan partment  tter: 160 Export department		7.46 25.41
1004 1026 150 IT de	Name, first name Young, Anthony Martinez, Dylan partment  tter: 160 Export department		7.46 25.41
Personal 1004 1026 150 IT de	Name, first name Young, Anthony Martinez, Dylan partment  tter: 160 Export department		7.46 25.41 33.27
Personal 1004 1026 150 IT de Cost cer	Name, first name Young, Anthony Martinez, Dylan partment  htter: 160 Export department  number Name, first name Young, Anthony		7.46 25.41 33.27
1004 1026 150 IT de Cost cer	Name, first name Young, Anthony Martinez, Dylan partment  hter: 160 Export department Tournber Name, first name Young, Anthony White, Matthew		7.46 25.41 33.27 8.22 10.06
Cost cer Personal 1004 1026 150 IT de	Name, first name Young, Anthony Martinez, Dylan partment  hter: 160 Export department  Young, Anthony White, Matthew Harris, Luke		7.46 25.41 33.27 8.22 10.06 7.08
Cost cer	number Name, first name Young, Anthony Martinez, Dylan partment  ter: 160 Export department number Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel		7.46 25.41 33.27 8.22 10.06 7.08 7.57
Cost cer Personal 1004 1026 150 IT de	Name, first name Young, Anthony Martinez, Dylan partment  hter: 160 Export department  Young, Anthony White, Matthew Harris, Luke		7.46 25.41 33.27 8.22 10.06 7.08
Cost cer	number Name, first name Young, Anthony Martinez, Dylan partment  htter: 160 Export department number Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack		7.46 25.41 33.27 8.22 10.06 7.08 7.57
Cost cer	number Name, first name Young, Anthony Martinez, Dylan partment  ter: 160 Export department number Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel		7.46 25.41 33.27 PDC time 8.22 10.06 7.08 7.57 143.11
Personal 1004 1026	number Name, first name Young, Anthony Martinez, Dylan	Total	7.4 25.4
Cost cer Personal 1004 150 IT de Cost cer Personal 1005 1011 1021 1121 160 Expc	number Name, first name Young, Anthony Martinez, Dylan partment  htter: 160 Export department number Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack	Total	7.4 25.4 33.2 33.2 8.2: 10.00 7.5 143.1
Cost cer    1004     1026     150   IT de	Namber Name, first name Young, Anthony Martinez, Dylan partment  hter: 160 Export department hter: 160 Export department Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack  ort department  hter: 170 Technical support	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11
Cost cer Personal 1004 1026 150 IT de Cost cer Personal 1004 1005 1011 1021 1121 160 Expo	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11
Cost cer	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11
Cost cer Personal 1004 1026 150 IT de  Cost cer Personal 1004 1121 160 Expc	Name, first name Young, Anthony Martinez, Dylan partment  hter: 160 Export department  Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack  rt department  hter: 170 Technical support number Name, first name Young, Anthony	Total	7.46 25.41 33.27 8.22 10.06 7.57 143.11 176.44
Cost cer	Name, first name Young, Anthony Martinez, Dylan partment  Ater: 160 Export department Martinez, Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack ort department  Ater: 170 Technical support number Name, first name Young, Anthony Perez, Emely	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer   1004   1026   150   IT de	Namber Name, first name Young, Anthony Martinez, Dylan partment  Atter: 160 Export department  Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack  Art department  Atter: 170 Technical support  Number Name, first name Young, Anthony Perez, Emely Martinez, Dylan	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer	Name, first name Young, Anthony Martinez, Dylan partment  Ater: 160 Export department Martinez, Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack ort department  Ater: 170 Technical support number Name, first name Young, Anthony Perez, Emely	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer   1004   1026   150   IT de	number Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  The state of t	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer Personal 1004 1026 150 IT de  Cost cer Personal 1004 1005 1011 1021 1121 160 Expo  Cost cer Personal 1004 1022 1026 1027 1100	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support  Name, first name Young, Anthony Perez, Emely Martinez, Dylan Wright, Isabella Scott, Noah	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer Personal 1004 1026 150 IT de  Cost cer Personal 1004 1005 1011 1021 1121 160 Expo  Cost cer Personal 1004 1022 1026 1027 1100	number Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  The state of t	Total	7.46 25.41 33.27 8.22 10.06 7.57 143.11 176.44 PDC Bine 121.00 122.43 102.09 131.26 134.36
Cost cer Personal 1004 1026 150 IT de 150 IT d	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support  Name, first name Young, Anthony Perez, Emely Martinez, Dylan Wright, Isabella Scott, Noah	Total	7.46 25.41 33.27 8.22 10.06 7.08 7.57 143.11 176.44
Cost cer Personal 1004 1026 150 IT de 1004 1005 1011 1121 160 Expo	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support  Name, first name Young, Anthony Perez, Emely Martinez, Dylan Wright, Isabella Scott, Noah	Total	7.46 25.41 33.27 8.22 10.06 7.57 143.11 176.44 PDC Bine 121.00 122.43 102.09 131.26 134.36
Cost cer Personal 1004 1026 150 IT de  Cost cer Personal 1004 1005 1011 1021 1121 160 Expo  Cost cer Personal 1004 1022 1026 1027 1100	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  Name, first name Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support  Name, first name Young, Anthony Perez, Emely Martinez, Dylan Wright, Isabella Scott, Noah	Total	7.46 25.41 33.27 8.22 10.06 7.57 143.11 176.44 PDC Bine 121.00 122.43 102.09 131.26 134.36
Cost cer Personal 1004 1026 150 IT de  Cost cer Personal 1004 1005 1011 1021 1121 160 Expo  Cost cer Personal 1004 1022 1026 1027 1100	Name, first name Young, Anthony Martinez, Dylan partment  Inter: 160 Export department  Young, Anthony White, Matthew Harris, Luke Sanchez, Samuel Nelson, Jack Inter: 170 Technical support  Name, first name Young, Anthony Perez, Emely Martinez, Dylan Wright, Isabella Scott, Noah Inical support	Total	7.46 25.41 33.27 8.22 10.06 7.57 143.11 176.44 PDC line 121.00 122.43 102.09 131.26 611.54

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#### 2.2 Employee-related analysis with daily totals broken down by cost centres

For each employee, the time totals are shown <u>per day and cost centre</u>. Furthermore, you can view the daily totals of the PDC times that have been booked on cost centres.

Additionally, the grand total of all times that have been booked on cost centres within the selected time range is shown in the *Total values* row at the bottom of the report.

	2 5 1 1 1			
		Cost Centre Name		DC time
11/18/2019		Sales department		1.36
11/18/2019		Export department		0.43
11/18/2019	900	Burden costs		0.04
11/18/2019 815 Wilson, Sofia	1		Total	2.23
11/19/2019	100	Sales department		3.38
11/19/2019	160	Export department		1.38
11/19/2019		Burden costs		0.09
11/19/2019 815 Wilson, Sofia	10		Total	5.25
11/20/2019		Sales department		1.14
11/20/2019		Export department		0.33
11/20/2019		Burden costs		0.03
11/20/2019 815 Wilson, Sofia			Total	1.50
11/21/2019	100	Sales department		5.28
11/21/2019	160	Export department		2.27
11/21/2019	900	Burden costs		0.14
11/21/2019 815 Wilson, Sofia	ı.		Total	8.09
11/22/2019	100	Sales department		1.18
11/22/2019		Export department		0.35
11/22/2019		Burden costs		0.03
11/22/2019 815 Wilson, Sofia	i .		Total	1.56
815 Wilson, Sofia	1		Total	19.43

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#### 2.3 Cost centre times broken down into the different time allocation and time types

This report shows the presence time <u>per day</u> (*PDC gross*) and the total time booked on the corresponding cost centre (*PDC time*).

Depending on the type of time allocation, the *PDC time* value is calculated as the sum of the time allocated automatically plus the time allocated manually plus the actual PDC time booked.

The column *Idle time* shows the presence times that have not been assigned to any cost centre.

of the sale of the	- Ann	description of the second							
Personal number	r: 1124 N	foore, Elizabeth							
Date C	out Contri	Card Circon Name	Alle	cuted time (ALTO) Allocat	ed time (monually) Punch	of actual later P	GC brief i	de brief PI	Ni gree
12/2/2019				0.00	0.00	0.00	0.00	0.00	8.0
12/2/2019		Marketing		0.00	3,44	0.00	3.44	0.00	0.0
12/2/2019	160	Export department		0.00	0.00	4.19	4.19	0.00	0.0
12/2/2019									
1124 Moore, Eliza	beth		Total	0.00	3.44	4.19	8.03	0.00	8.0
12/3/2019				0.00	0.00	0.00	0.00	0.00	5.5
12/3/2019	100	Sales department		0.00	1.33	0.00	1.33	0.00	0.0
12/3/2019	160	Export department		0.00	0.00	4.25	4.25	0.00	0.0
12/3/2019 1124 Moore, Eliza 12/4/2019	beth		Total	0.00	1.33	4.25 0.00	5.58	0.00	5.5
12/4/2019	166	Sales department	_	0.00	5.43	0.00	5.43	0.00	0.0
12/4/2019		Export department	_	0.00	0.00	2.06	2.06	0.00	0.0
100 0000000	160	Export department		0.00	0.00	2.00	2.00	0.00	0.0
12/4/2019 1124 Moore, Eliza	beth		Total	0.00	5.43	2.06	7.49	0.00	7.4
12/5/2019				0.00	0.00	0.00	0.00	0.15	9.3
12/5/2019	110	Marketing		0.00	900	0.00	9.00	0.00	0.0
12/5/2019	120	Distribution		0.15	0.00	0.00	0.15	0.00	0.0
12/5/2019 1124 Moore, Eliza	beth		Total	0.15	9.00	0.00	9.15	0.15	9.3
12/6/2019				0.00	0.00	0.00	0.00	0.00	4.1
12/6/2019	120	Distribution		0.15	0.00	0.00	0.15	0.00	0.0
12/6/2019	160	Export department		0.00	1.36	2.23	3.59	0.00	0.0
12/6/2019 1124 Moore, Eliza	beth		Total	0.15	1.36	2.23	4,14	0.00	4.5
1124 Moore, Eliza	h anh		Total	0.30	21.36	13,13	35.19	0.15	35.3

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#### 2.4 Employee data analysis with bookings and cost centre related premium hours

The present report shows in detail the time value calculated for the relevant time range from (*Time slice start*) - to (*Time*) which has been determined either as *PDC time* or *Premium hours* value with reference to the corresponding cost centre.

The evaluation is based on the premium hours definitions created for Time & Attendance and the settings in the corresponding PDC time slice definition.

In the bottom line, you can view the total values with regard to the *PDC time* and the *Premium hours accounts* for the entire selected time range.

0.52 4.25 0.00 0.00 3.45	2.00	0% WkReg	
0.52 4.25 0.00 0.00		0% WkRep	0.0
4,25 0,00 0,00	2.00		0.0
0.00	2.00		0.0
0.00	2.00		0.0
			0.0
3.45		0.42	0.0
3,43			0.0
1,40			0.0
0.07			0.0
1.05			0.0
2.00			0.0
3.19			0.0
1.29			0.0
0.15			0.0
2.06			0.0
4.18			0.0
0.00	0.08		0.0
4.05			0.0
2.27			0.0
4.33			0.0
0.00	2.00		0.0
0.00		1.05	0.0
3.53			0.0
3.22			0.0
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	0.07 1.05 2.00 3.19 1.29 0.15 2.06 4.18 0.00 4.05 2.27 4.33 0.00 0.00 3.53	0.07 1.05 2.00 3.19 1.29 0.15 2.06 4.18 0.00 0.08 4.05 2.27 4.33 0.00 2.00 0.00 3.53 3.22	0.07 1.05 2.00 3.19 1.29 0.15 2.06 4.18 0.00 0.08 4.05 2.27 4.33 0.00 2.00 0.00 2.00 0.00 3.53 3.22

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#### 2.5 Cost centre analysis with determination of personnel costs

This report shows the time totals (PDC time) <u>per cost centre and employee</u> as well as the applicable hourly rate taking into account any changes within the relevant output date range.

Based on this data, the costs per employee as well as the total cost per cost centre are displayed, complemented by the grand total of personnel costs of all cost centres in the bottom line of the report.

#### Cost centre analysis with personnel costs Cost centre: 130 Purchase Department 1001 Anderson, Jacob 14.57 \$48.00 \$717.60 1005 White, Matthew 2.54 \$39.00 \$113.10 130 Purchase Department Total 17.51 \$830.70 Cost centre: 140 HR department 1025 Lee, Michael 7.10 \$34.50 \$247.25 1026 7.45 \$42.00 \$325.50 Martinez, Dylan 140 HR department Total 14.55 \$572.75 Cost centre: 150 IT department \$48.00 \$45.00 \$207.20 1001 Anderson, Jacob 4.19 7.46 1004 Young, Anthony \$349.50 25.41 \$1,078.70 1026 Martinez, Dylan \$42.00 Total 37.46 \$1,635.40 150 IT department Cost centre: 160 Export department 815 Wilson, Sofia 23.58 \$27.50 \$659.08 1000 0.00 \$0.00 Smith, James 1002 Thompson, Lucas 49,40 \$31.45 \$1,562.02 1004 Young, Anthony 8.22 \$45.00 \$376.50 1005 White, Matthew 10.06 \$39.00 \$393.90 7.08 \$27.00 \$192.60 1011 Harris, Luke 1021 Sanchez, Samuel \$34.00 \$270.30 1121 Nelson, Jack 143,11 \$34,00 \$4,868.23 Torres, Julian 137.16 \$4,872.97 \$35.50 Total 387.38 \$13,195.60 160 Export department Cost centre: 900 Burden costs 815 Wilson, Sofia 2.14 \$27.50 \$61.42 1002 \$31,45 \$130.52 4 09 Thompson, Lucas 900 Burden costs Total 6.23 \$191.93 \$16,426.38 Total values: Total 464.33

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#### 2.6 Employee data analysis grouped by organisation unit

This report is grouped by the employee's organisation unit (OU) and shows the time totals (per employee) that have been booked on cost centres as well as the total time booked on cost centres.

In the *Total values* line at the bottom of the report, you can view the grand total of all PDC times having been booked on cost centres with regard to the selected organisation units within the corresponding output time range.

Personal nu 2004 2005	s organization unit: 1001 Sales		
2004	mber Name, first name	Cost Centre	PDC tim
	Anderson, James	100	180.45
	Davis, Ethan	100	180.45
2006	Wilson, Daniel	100	180.45
2008	Clark, Zoey	100	180.45
2009	Hemandez, Logan	100	180.45
2010	Garcia, Alexander	100	180.45
1001 Sales	Joanna, Makamuti	100	100.45
1000		Total	1084.30
Employee's	s organization unit: 1002 Technic	al Support	POC ETV
1001	Anderson, Jacob	170	152.18
1003	Gonzalez, Ella	170	162,00
1004	Young, Anthony	170	154.56
1012	Miller, Benjamin	100	142.09
1021	Sanchez, Samuel	100	145.45
1022	Perez, Emely	170	147.04
1025	Lee, Michael	100	159,11
1026	Martinez, Dylan	150	26.45
1026	Martinez, Dylan	170	106.15
1027	Wright, Isabella	170	143.45
1100	Scott, Noah	170	139.58
1002 Techn	ical Support	Total	1480.06
Personal ne 815 815 815 815 1121 1125 1129 1130 1141 1148	s organization unit: 2900 Engines  Mison, Sofia  Wilson, Sofia  Wilson, Sofia  Wilson, Sofia  Nelson, Jose  Torres, Julian  Roberts, Charles  Evans, Connor  Thompson, Joseph  Martin, Henry  pering department		79.01 35.17 3.21 149.04 155.57 141.34 147.48 153.24 180.45
	anno arparent		1046.11

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#### 2.7 Cost centre analysis with time and cost values expressed as percentages

This report is grouped by cost centres listing the cost and time totals <u>per employee</u>.

Beside the cost and time totals per employee, the report contains two additional columns for the time and cost values expressed as percentages (%) of the cost centre's total time (hours) resp. total cost (in  $\in$ ).

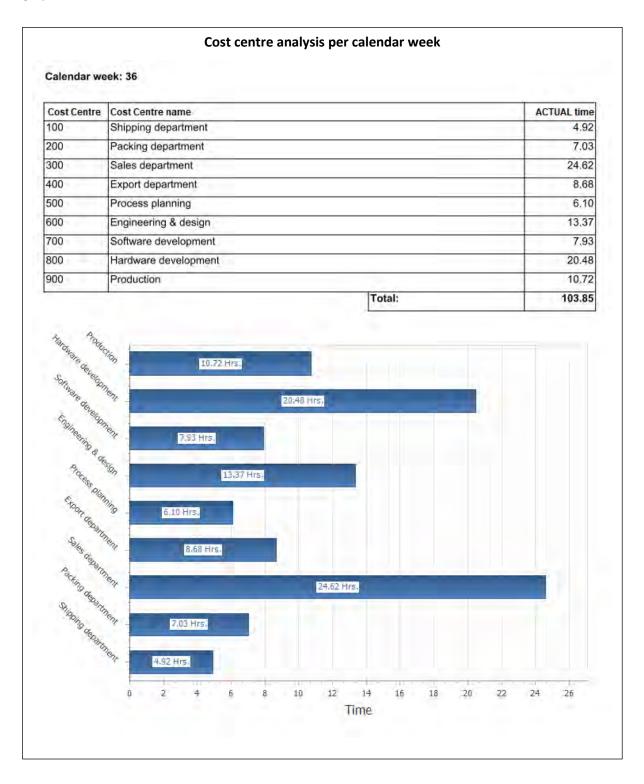
ssue period	Date range (01,09,19 - 30,0	9,19)				Report-Nr.
Cost Censter	r: 100					
Description:	Versand					
Personal number	Name	Hourly rate	Hours	Costs	Hours prop.	Costs prop.
2000 2003	Herrmann, Thomas Lehmann, Willy	\$35.50 \$27.50	10.33	\$366.72 \$263.73	51.80% 48.20%	58.17% 41.83%
		427.50	19.95	\$630.44	100.00%	100.00%
Cost Censter Description:	r. 200 Packerel					
Personal number	Name	Hourly rate	Hours	Costs	Hours prop.	Costs prop.
2000 2003	Hermann, Thomas	\$35.50	14.80	\$525,40	51.69%	58.01%
2003	Lehmann. Willy	\$27.50	13.83	\$380.33 \$905.73	48.31%	100.00%
Cost Censter	r; 300 Vertrieb					
2207	2	A-9175	- dN 5	200	-	- 250
Personal number	Name	Hourly rate	Hours	Costs	Hours prop.	prop.
2000 2003	Hermann, Thomas Lehmann, Willy	\$35.50 \$27.50	51.80 48.50	\$1,839.26 \$1,333.48	51.65% 48.35%	57.97% 42.03%
			100.30	\$3,172,73	100.00%	100.00%
Cost Censter						
		Hourly rate	Hours	Costs	Hours prop.	Costs prop.
Description:	Export	Hourly rate \$35.50 \$27.50	Hours 18.18 17.10	Costs \$646.46 \$470.25		

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#### 2.8 Tabular and graphical analysis of cost centre times per calendar week

This report is based on a cost centre analysis with reference to a selected calendar week. The evaluation shows the weekly ACTUAL time totals per cost centre in a tabular form as well as in a graphical form, here as a bar chart.

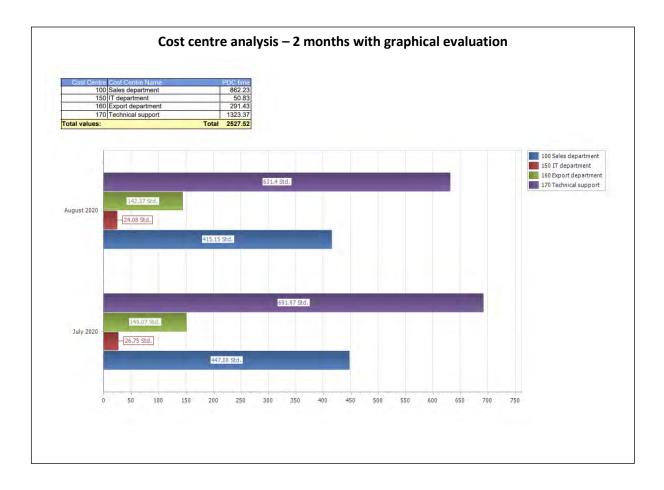


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#### 2.9 Cost centre analysis with graphical visualization per month

This reports contains both a table and a graphical visualization of the result values. The table shows the PDC time totals per cost centre times based on the entire selected time period (here: 2 months), whereas the graphical visualization (bar chart) presents the corresponding cost centre times as coloured bars grouped by month.

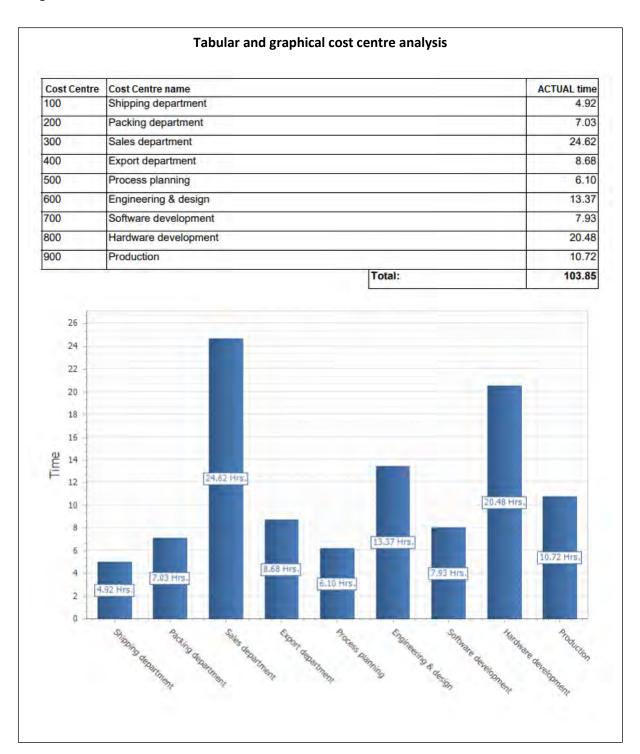


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#### 2.10 Tabular and graphical cost centre analysis

The ACTUAL times per cost centre are shown in tabular form and as a bar graph for the selected time range.



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#### 3 Sample reports relating to "Job Costing"

#### 3.1 Project analysis with staff grouped by activities / work packages

This evaluation delivers detailed information on a specific project listing the individual activities resp. work packages complemented by the date of performance, name and badge number of the corresponding employee and the allocated PDC time value.

The bottom line contains the total project time accumulated over the specified time range for all involved employees.

			Proj	ect analysis with sta	aff			
roject: 4 Ew	ring Equipmen	t -						
	Personal numb			Milestone Name		Task Name	li i	DC tim
9/3/2019	1011	Harris, Luke	200	Consulting	200	Meeting		5.2
9/3/2019	1012	Miller, Benjamin	200	Consulting	200	Meeting		6.5
10/1/2019	1002	Thompson, Lucas	100	Hardware installation	100	On-site inspection		3.
11/4/2019	1011	Harris, Luke	200	Consulting	210	Software setup		6.
11/5/2019	1004	Young, Anthony	100	Hardware installation	110	Terminal installation		8.
11/6/2019	1004	Young, Anthony	100	Hardware installation	110	Terminal installation		8.
11/7/2019	1012	Miller, Benjamin	200	Consulting	220	Customizing		8.
11/11/2019	1011	Harris, Luke	200	Consulting	230	User training		3.
11/18/2019	1011	Harris, Luke	200	Consulting	230	User training		4.
12/10/2019	1011	Harris, Luke	200	Consulting	240	Final inscpection		3.
otal values:							Total	59.
rojekt: 4 Ha							70141	00.

### 3.2 <u>Project analysis with cost calculation based on the hourly rate as defined for the work package</u>

Regardless of the employee's hourly rate, the project costs are calculated based on the time spent on each work package and the corresponding hourly rate as previously defined per work package.

The grand total corresponds to the sum of all work package related costs. The previously specified project's offer price serves as reference value and is displayed in the report header.

		Project	analysis with cost	S		
ocect: 4 Ewir fer price: \$5,	ng Equipment 250.00					
Mileston	Milestone name	Task	Task name	PDC time	Hourly rate of task	Cost
100	Hardware installation	100	On-site inspection	3.00	\$52.00	\$156.0
100	Hardware installation	110	Terminal installation	16.56	\$48.00	\$812.8
200	Consulting	200	Meeting	12.17	\$65.00	\$798.4
200	Consulting	210	Software setup	6.44	\$72.50	\$488.1
200	Consulting	220	Customizing	8.11	\$75.00	\$613.7
200	Consulting	230	User training	8.01	\$67.00	\$537.13
200	Consulting	240	Final inscpection	3.56	\$75.00	\$295.0
Total values:				Total 59.05		\$3,701.2

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#### 3.3 Target/Actual comparison report based on the target times of the work packages

The report shows both the work package specific target time as previously defined and the actual PDC times. The difference (*Diff.*) is calculated based on these two values.

For all three columns, namely *Working package target*, *PDC time* and *Diff.*, the corresponding grand total is shown in the *Total values* line informing about the total target time, total actual time and the total difference.

	Project	t analysis wi	th target/actual co	mparison			
ect: 4 Ewin	g Equipment						
Milestone	Milestone name	Task	Task name	Pla	anned time F	PDC time	Di
100	Hardware installation	100	On-site inspection		4.00	3.00	-1.0
100	Hardware installation	110	Terminal installation		16.00	16.56	0.
200	Consulting	200	Meeting		8.00	12.17	4.
200	Consulting	210	Software setup		12.00	6.44	-5.
200	Consulting	220	Customizing		10.00	8.11	-1.
200	Consulting	230	User training		8.00	8.01	0.
200	Consulting	240	Final inscpection		4.00	3.56	-0.
al values:				Total:	62.00	59.05	0.

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#### 4 Sample reports relating to "Production Data Capture (PDC)"

### 4.1 <u>Project analysis based on orders (components) and individual positions (activities)</u> incl. PDC times and quantities

For evaluation purposes, the selected project is split into the different orders resp. components and the latter are additionally broken down into its individual positions (activities).

The following values are determined and output per position: the actual *PDC time* as well as the *good yield, rejects* and *rework* quantities.

Additionally, the report outputs the total PDC time as group total per order and, in the bottom line, the PDC time as grand total for the entire project.

Order Name	Activity	Activity Name	PDC time C	Good yield Reje	ects quantity Rewo	ork quantity
IT 4100 CPU	10	Providing material	0.00	100.00	.00	.00
IT 4100 CPU	20	SMD assembly	7.21	98.00	.00	2.00
IT 4100 CPU	30	Assembly axial components	12.46	100.00	.00	.00
IT 4100 CPU	40	Visual inspection/resoldering	3.59	100.00	.00	.00
IT 4100 CPU	50	ICT Test	8.07	92.00	2.00	6.00
IT 4100 CPU	60	Final inspection / domumentation	2.14	50.00	2.00	.00
IT 4100 CPU			- 11-1	1,000	-	
IT 4100 Power Supply	10	Prepare material	0.25	100.00	.00	.00
IT 4100 Power Supply	20	Applicate soldering paste	15.39	100.00	.00	3.00
IT 4100 Power Supply	30	Setup SMD CPU assembly	935.55	100.00	.00	.00
IT 4100 Power Supply	40	SMD assembly	4.01	100.00	.00	.00
	50	Visual control	14.37	100.00	1.00	3.00
IT 4100 Power Supply	00					
IT 4100 Power Supply IT 4100 Power Supply	70	Packing and storage	5.15	.00	.00	.00
	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply	IT 4100 CPU	T 4100 CPU	IT 4100 CPU	IT 4100 CPU	T 4100 CPU

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#### 4.2 Project analysis with employee working times and quantities

For each order position and employee, the PDC times and booked quantities of the respective employee are displayed in detail.

The sum of the individual PDC times is output per order and in the bottom line as grand total for the entire project.

Order	Order Name	Activity	Activity Name	Name, first name	-20	DC time C	ond yield Rei	ects quantity Rew	ork quantity
810	IT 4100 CPU	10	Providing material	Gonzalez, Ella	0.00	0.00	100.00	.00	.00
810	IT 4100 CPU	20	SMD assembly	Gonzalez, Ella		6.26	98.00	.00	2.00
810	IT 4100 CPU	20	SMD assembly	Young, Anthony		0.55	.00	.00	.00
810	IT 4100 CPU	30	Assembly axial components	Harris, Luke		0.00	.00	.00	.00
810	IT 4100 CPU	30	Assembly axial components	Wright, Isabella		12.46	100.00	.00	.00
810	IT 4100 CPU	40	Visual inspection/resoldering	Wright, Isabella		3.59	100.00	.00	.00
810	IT 4100 CPU	50	ICT Test	Anderson, Jacob		8.07	92.00	2.00	6.00
810	IT 4100 CPU	60	Final inspection / domumentation	Anderson, Jacob		2.14	50.00	2.00	.0
810 410014 IT4	4100 IT 4100 CPU				Total	34.27	100.00		0.0
810	4100	100	r mar mspection / domainentation	Princeson, Succession	2000				
810 410014 IT4	4100 IT 4100 CPU				Total	34.27	100.00		00
810 410014 IT4 820	IT 4100 CPU IT 4100 Power Supply	10	Prepare material	Gonzalez, Ella	Total	<b>34.27</b> 0.25	100.00	.00	.00
310 410014 IT4 320 320	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply	10 20	Prepare material Applicate soldering paste	Gonzalez, Ella Anderson, Jacob	Total	34.27 0.25 3.08	.00	.00	.0
810 410014 IT4 820 820 820	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply	10 20 20	Prepare material Applicate soldering paste Applicate soldering paste	Gonzalez, Ella Anderson, Jacob Anderson, James	Total	34.27 0.25 3.08 5.15	.00	.00 .00 .00	3.00
310 410014 IT4 320 320 320 320	IT 4100 CPU IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply	10 20 20 20	Prepare material Applicate soldering paste Applicate soldering paste Applicate soldering paste	Gonzalez, Ella Anderson, Jacob Anderson, James Gonzalez, Ella	Total	34.27 0.25 3.08 5.15 7.16	.00 100.00 .00	.00 .00 .00	3.0 3.0
810 410014 IT4 820 820 820 820 820 820	IT 4100 CPU IT 4100 CPU IT 4100 Power Supply	10 20 20 20 20 30	Prepare material Applicate soldering paste Applicate soldering paste Applicate soldering paste Setup SMD CPU assembly	Gonzalez, Ella Anderson, Jacob Anderson, James Gonzalez, Ella Anderson, Jacob	Total	34.27 0.25 3.08 5.15 7.16 8.14	.00 100.00 .00	.00 .00 .00 .00	3.00 3.00 .00
820 820 820 820 820 820 820 820 820 820	17 4100 CPU  IT 4100 Power Supply	10 20 20 20 20 30 30	Prepare material Applicate soldering paste Applicate soldering paste Applicate soldering paste Applicate soldering paste Setup SMD CPU assembly Setup SMD CPU assembly	Gonzalez, Ella Anderson, Jacob Anderson, James Gonzalez, Ella Anderson, Jacob Spitz, Larissa	Total	34.27 0.25 3.08 5.15 7.16 8.14 13.23	.00 100.00 .00 .00 100.00	.00 .00 .00 .00 .00	.00 3.00 .00 .00
810 410014 IT4	IT 4100 CPU IT 4100 CPU IT 4100 Power Supply	10 20 20 20 20 30	Prepare material Applicate soldering paste Applicate soldering paste Applicate soldering paste Setup SMD CPU assembly	Gonzalez, Ella Anderson, Jacob Anderson, James Gonzalez, Ella Anderson, Jacob	Total	34.27 0.25 3.08 5.15 7.16 8.14	.00 100.00 .00	.00 .00 .00 .00	3.00 3.00 .00
820 820 820 820 820 820 820 820 820 820	IT 4100 CPU  IT 4100 Power Supply	10 20 20 20 20 30 30 30	Prepare material Applicate soldering paste Applicate soldering paste Applicate soldering paste Setup SMD CPU assembly Setup SMD CPU assembly Setup SMD CPU assembly	Gonzalez, Ella Anderson, Jacob Anderson, James Gonzalez, Ella Anderson, Jacob Spitz, Larissa Young, Anthony	Total	34.27 0.25 3.08 5.15 7.16 8.14 13.23 914.18	.00 100.00 .00 .00 100.00	.00 .00 .00 .00 .00	.00 3.00 .00 .00

#### 4.3 **Project analysis with machine times**

This report shows for each position (activity) the machine(s) used, the corresponding PDC time and the booked quantity (*Good yield*).

The sum of the individual PDC times is output per order and in the bottom line as grand total for the entire project.

Order	Oros Name	Activity	Authory Name	Machine	Machine Nation	PDC time	Good wat
810	IT 4100 CPU	10	Providing material	910	Ohne Maschine	0.00	100.00
810	IT 4100 CPU	20	SMD assembly	100	SMD Bestückungsautomat	7.21	98.00
310	IT 4100 CPU	30	Assembly axial components	120	Bestückungsrahmen	12.46	100.00
310	IT 4100 CPU	40	Visual inspection/resoldering	120	Bestückungsrahmen	3.59	100.00
				200	ICT / Systemmessplatz	8.07	92.00
810 810 410014 (T410		50	ICT Test	1200			92.0
810 810014 [T410	00 IT 4100 CPU				Tota	32.13	
810 810014 (T410 820	00	[10	Prepare material	910			100.00
320 320	00 IT 4100 CPU	10	Prepare material Applicate soldering paste		Tota	32.13	100.00
810 610014 (T410 820 820 820	IT 4100 CPU IT 4100 Power Supply	[10	Prepare material	910	Ohne Maschine	32.13 0.25	100.00
810 810014 [T410	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply	10	Prepare material Applicate soldering paste	910	Ohne Maschine SMD Bestückungsautomat	32.13 0.25 5.15	100.00

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#### 4.4 Project analysis with cost centre totals

This report shows the cost centre times and the corresponding good yield quantities per position (activity).

The sum of the individual PDC times is output per order and in the bottom line as grand total for the entire project.

Order	Order Name	Activity	Activity Name	Cost center pattern	Cost center pattern Name	PDC time C	Good yiel
810	IT 4100 CPU	10	Providing material	100	Lager	0.00	100.0
810	IT 4100 CPU	20	SMD assembly	200	SMD Bestückung	7.21	98.0
810	IT 4100 CPU	30	Assembly axial components	210	Bestückung konventionell	12.46	100.0
810	IT 4100 CPU	40	Visual inspection/resoldering	210	Bestückung konventionell	3.59	100.0
810	IT 4100 CPU	50	ICT Test	600	Elektronik Fertigung	8.07	92.0
810 410014 IT4					Total	32.13	
410014 IT4	IT 4100 CPU	Lio		Lies	Total		100.0
410014 IT4 820	IT 4100 CPU IT 4100 Power Supply	10	Prepare material	100	Lager	0.25	
820 820	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply	20	Applicate soldering paste	200	Lager SMD Bestückung	0.25 5.15	100.0
820 820 820 820	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply IT 4100 Power Supply	20 30	Applicate soldering paste Setup SMD CPU assembly	200 210	Lager SMD Bestückung Bestückung konventionell	0.25 5.15 13.23	100.0
T 0 T	IT 4100 CPU IT 4100 Power Supply IT 4100 Power Supply	20	Applicate soldering paste	200	Lager SMD Bestückung	0.25 5.15	100.0 100.0 100.0 100.0 100.0

#### 4.5 **Project analysis with breakdown reasons**

This report outputs per position (activity) the corresponding employee name, booked PDC time as well as the corresponding good yield, rejects and rework quantities.

Furthermore, breakdown times (if available) complemented by the associated breakdown reason are displayed. In rows containing breakdown reasons, the corresponding breakdown time is displayed in the *PDC time* column.

The sum of the individual PDC times is output per order and in the bottom line as grand total for the entire project.

810 IT 41 810 IT 41	100 CPU 100 CPU 100 CPU 100 CPU 100 CPU 100 CPU 100 CPU 100 CPU	Activity 10 20 20 30 30 40	Activity Name Providing material SMD assembly SMD assembly Assembly axial components Assembly axial components	Name, first name Gonzalez, Ella Gonzalez, Ella Young, Anthony Harris, Luke	Breakdown reasons Na	0.00 6.26 0.55	Good yield Rejet 100.00 98.00	.00	ork quantii .00 2.00
810 IT 41 810 IT 41	00 CPU 00 CPU 00 CPU 00 CPU 00 CPU 00 CPU 00 CPU	10 20 20 30 30 40	Providing material SMD assembly SMD assembly Assembly axial components Assembly axial components	Gonzalez, Ella Gonzalez, Ella Young, Anthony	DIEBRUDWII TEBSUNS IVA	0.00 6.26	100.00 98.00	.00	.0
810 IT 41 810 IT 41	00 CPU 00 CPU 00 CPU 00 CPU 00 CPU 00 CPU	20 20 30 30 40	SMD assembly SMD assembly Assembly axial components Assembly axial components	Gonzalez, Ella Young, Anthony		6.26	98.00	.00	
810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41	00 CPU 00 CPU 00 CPU 00 CPU 00 CPU	20 30 30 40	SMD assembly Assembly axial components Assembly axial components	Young, Anthony					
810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41	00 CPU 00 CPU 00 CPU 00 CPU	30 30 40	Assembly axial components Assembly axial components				.00	.00	.0
810 IT 41 810 IT 41 810 IT 41 810 IT 41 810 IT 41	00 CPU 00 CPU 00 CPU	30 40	Assembly axial components			0.00	.00	.00	.0
810 IT 41 810 IT 41 810 IT 41 810 IT 41	00 CPU	40		Wright, Isabella		12.46	100.00	.00	.0
810 IT 410 810 IT 410 810 IT 410	00 CPU		Visual inspection/resoldering	Wright, Isabella		3.59	100.00	.00	.0
810 IT 410 810 IT 410		50	ICT Test	Anderson, Jacob		7.32	92.00	2.00	6.0
810 IT 41	00 CPU	50	ICT Test	Anderson, Jacob	Positioning accuracy	0.35	.00	.00	.0
	100 CPU	60	Final inspection / domumentatio		. como mig accuracy	2.14	50.00	2.00	.0
820 IT 41	100 Power Supply	20	Applicate soldering paste	Anderson, Jacob		3.08	.00	.00	.0
	00 Power Supply	20	Applicate soldering paste	Anderson, James		4.45	100.00	.00	3.0
	100 Power Supply	20	Applicate soldering paste	Anderson, James	Positioning accuracy	0.30	.00	.00	.0
	100 Power Supply	20	Applicate soldering paste	Gonzalez, Ella	Material fault	7.16	.00	.00	.0
	100 Power Supply	30	Setup SMD CPU assembly	Anderson, Jacob		2.25	.00	.00	.0
	100 Power Supply	30	Setup SMD CPU assembly	Anderson, Jacob	No material	5.49	.00	.00	.0
820 IT 41	00 Power Supply	30	Setup SMD CPU assembly	Spitz, Larissa		13.23	100.00	.00	.0
820 IT 41	00 Power Supply	30	Setup SMD CPU assembly	Young, Anthony		914.18	.00	.00	.0
820 IT 41	00 Power Supply	40	SMD assembly	Wright, Isabella		4.01	100.00	.00	.0
820 IT 41	00 Power Supply	50	Visual control	Anderson, Jacob		14.37	100.00	1.00	3.0
820 IT 41	00 Power Supply	70	Packing and storage	Anderson, Jacob		5.15	.00	.00	.0
820 IT 41	100 Power Supply		Visual control	Anderson, Jacob		14.37	100.00	1.00	=

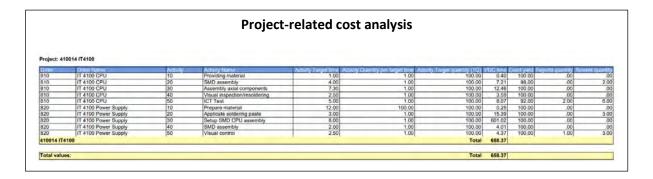
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#### 4.6 Costing analysis report

The report shows for each position the planned PDC target time, the actual PDC time as well as the target quantity (TQ) and the good yield quantity. The costing analysis is complemented by the values of the rejects and rework quantity.

The sum of the individual PDC times is output per order and in the bottom line as grand total for the entire project.



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#### 5 Analyses based on data from "PDC information"

Possibility to analyse orders and determine key performance indicators (KPI) based on PDC data in accordance with the VDMA 66412-1 guideline [VDMA stands for the German Mechanical Engineering Industry Association].

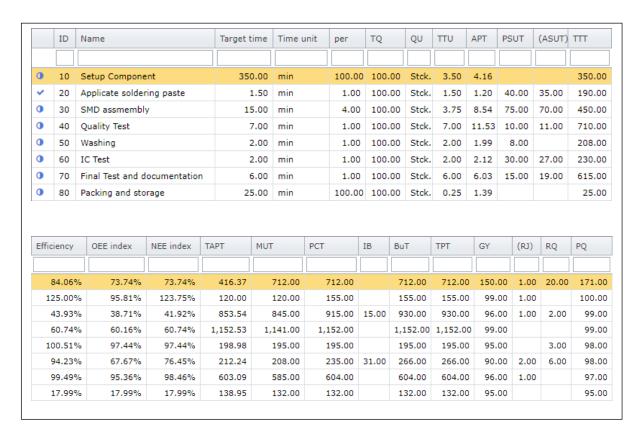
The evaluation results can be exported to Excel for subsequent processing of the data and creation of different user-specific list views.

#### 5.1 Example of an order analysis with KPI determination

Due to the table width, the output is split into two parts.

The abbreviations used are based on the above-mentioned German VDMA guideline. For further details, please refer to the training document "ZEUSX\_PDC\_PDC information" (English version under preparation).

Below screenshot shows the results of an in-depth analysis of various order positions incl. time and quantity values as well as the resulting key performance indicators.



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#### 5.2 Comparison of 3 production lines

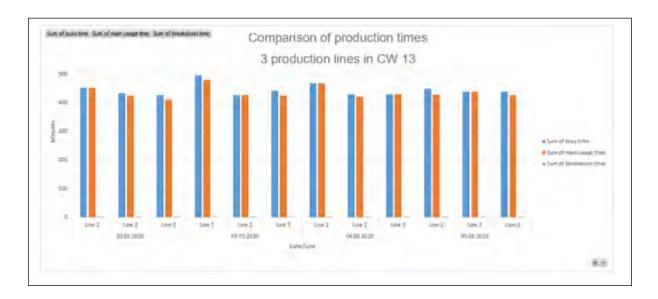
Below evaluation table contains the figures resulting from a comparison of three different production lines (each production line is defined as a cost centre).

Each row corresponds to a specific production line and contains the following data for the selected time range: recorded time values (MUT = Main usage time / PCT = Processing time), recorded quantity values (GY = Good yield / RJQ = Rejects qty. / RWQ = Rework qty. / PQ = Produced qty.) as well as the resulting key performance indicators such as the quality rate or the Overall Equipment Effectiveness (OEE) index.



#### 5.3 Graphical comparison of daily values

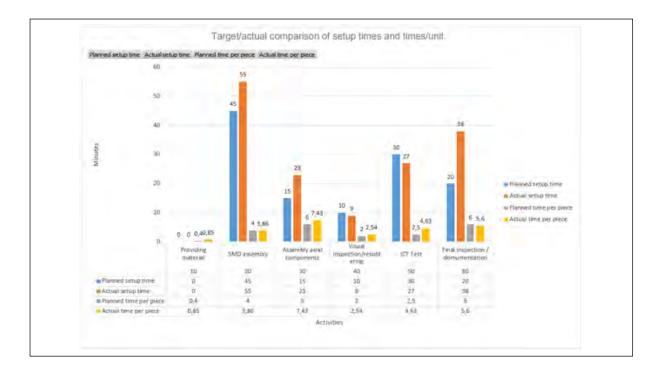
This graphical analysis is based on the daily values of three different production lines with reference to calendar week 13.



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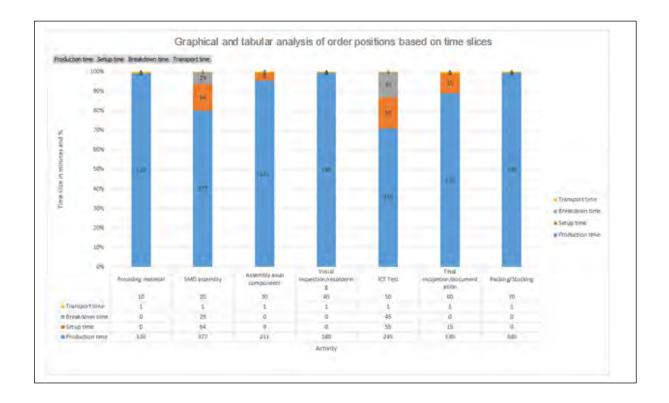


### 5.4 Graphical and tabular analysis of target and actual values for setup and production times per unit broken down into the individual order processing steps



#### 5.5 Graphical and tabular analysis of order positions differentiating between time types

The different time values (times for transport / breakdown, setup and production) shown in the graphical analysis below are reported as percentages (%) and absolute values (in minutes).

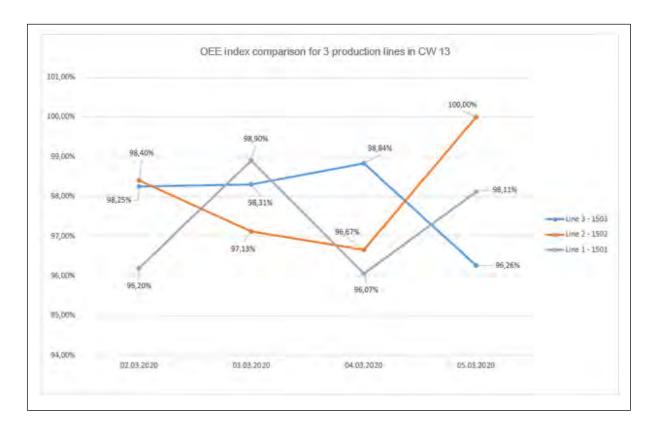


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### 5.6 <u>Graphical visualization of the OEE index over time referring to different cost centres / production lines</u>

The relevant values (in %) of the OEE (Overall Equipment Effectiveness) index are calculated based on the available PDC data and grouped by day and cost centre / production line. The corresponding data can be exported to Excel and displayed as a line chart as shown below:

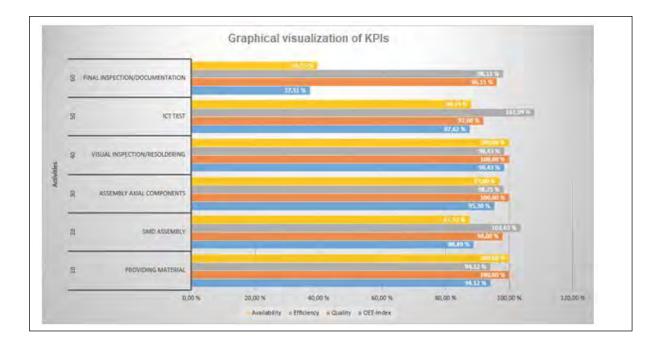


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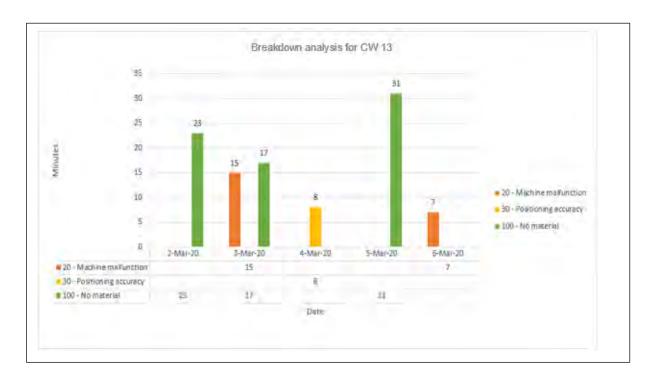
#### 5.7 Graphical visualization of order positions with key performance indicators

The most important key performance indicators expressed as a percentage per order position are displayed in a bar chart.



#### 5.8 Graphical and tabular analysis of breakdown times and reasons

Possibility to output the present breakdown reasons including the corresponding breakdown duration (in minutes) per day as a table. Additionally, the associated data is presented in a bar chart.



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#### 6 Print-out of pay slips and barcode lists

The print-out option of pay slips and barcode lists is available for all modules, namely *Cost Centre Recording, Job Costing* and *Production Data Capture (PDC)*.

Furthermore, barcode lists can be generated based on master data, such as machines or cost centres.

Data entry via barcode facilitates and accelerates error-free input of order parameters.

#### 6.1 Pay slip for project data recording with 2/5 Interleaved (I2of5) barcode

The barcode displayed/printed on the pay slip comprises data referring to the corresponding the projects, milestones and work packages.

Coding is based on the standard 2/5 Interleaved code commonly used in the production area.



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#### 6.2 Pay slip for project data recording with QR code

The QR code displayed/printed on the pay slip comprises data referring to the corresponding projects, milestones and work packages.

Pay slips equipped with QR codes are ideally suited for project data recording via ZEUS® mobile.

	Pay slip for project data r	ecoraing
Identification number Project Name Identification number Milestone Name Identification number Task Name	t Speedfort shipping 100 Hardware installation 100 On-site inspection	
Identification number Project Name Identification number Milestone Name Identification number Task Name	1 Speedfort shipping 100 Hardware installation 110 Mounting Terminals	0 70 12 0 2
Identification number Project Name Identification number Milestone Name Identification number Task Name	1 Speedfort shipping 200 Consulting 200 Meeting	
Identification number Project Name Identification number Milestone Name Identification number Task Name	1 Speedfort shipping 200 Consulting 210 Software setup	070 387
Identification number Project Name Identification number Milestone Name Identification number Task Name	1 Speedfort shipping 200 Consulting 220 Customizing	

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#### 7 Presence time

#### 7.1 Comparison report – Presence time vs. booked PDC times

The report shown below includes the results of a comparison between the employee's daily presence time and the associated PDC time booked on cost centres, orders, etc. – the booked PDC times correspond to the productive time.

The *Report Designer* allows you to highlight possible differences between the daily presence time and the sum of the booked PDC times in colour, e. g. in red as shown below.

	The second	White, Matthew			
Datr	Cost cencire	Cost centre name		DC time	PDC-Gross
2/9/2019			- 1	0.00	8.54
2/9/2019		Sales department		5.27	0.00
2/9/2019	110	Marketing	3	3.27	0.00
02.09.2019					
1005 White, Ma	atthew		Total	8.54	8.54
3/9/2019				0.00	9.37
3/9/2019	100	Sales department		3.49	0.00
3/9/2019	110	Marketing		1.30	0.00
3/9/2019	160	Export department		4.01	0.00
03.09.2019 1005 White, Ma	atthew		Total	9.20	9.37
4/9/2019				0.00	7.32
4/9/2019	110	Marketing		7.32	0.00
04.09.2019					
1005 White, Ma	atthew		Total	7.32	7.32
5/9/2019				0.00	8.59
5/9/2019	130	Purchase Department		2.54	0.00
5/9/2019	160	Export department		6.05	0.00
05.09.2019 1005 White, Ma	atthew		Total	8.59	8.59
6/9/2019				0.00	9.03
6/9/2019	100	Sales department		5.09	0.00
6/9/2019	110	Marketing		3.54	0.00
06.09.2019					
1005 White, Ma	atthew		Total	9.03	9.03
1005 White, Ma	atthew		Total	43.48	44.05

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