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3.12.04 Capacity Chart

The capacity chart contains the charts and overviews regarding utilization, capacity and calendar. These include general overviews, capacity utilisation and capacity charts and calendar overview charts.

The following charts can be generated:

- Capacity utilisation evaluation I
- Capacity utilisation evaluation II and Capacity utilisation evaluation III
- Capacity evaluation I
- Capacity evaluation II
- Capacity evaluation III
- Calendar overview evaluation I und Calendar overview evaluation II

Capacity Utilisation Evaluation I

The **Capacity Utilisation Evaluation I** chart generates an overview of all tasks of the employees, which are employee-related and lists them according to the priorities. That is, in this chart variation, the processing periods of jobs are partially ignored (if the employee has no task for the time period, the next job is chosen). The prioritization of projects is higher than the priority of the individual jobs. Jobs without a project have the lowest priority. In this chart, all already recorded times, holidays and absences of employees are taken into account. Furthermore, it is displayed, when the employee will be finished with the tasks planned for him/her, if all jobs are consistently processed one after the other.

This applies to the calculation of the period:

When degree of completion is recorded: The estimated duration of the job is assumed to be the total time. The remaining work time for the job is calculated as total time - total time * degree of completion. The following applies: if no duration for the job is specified, the plan for this employee is canceled and the a message is displayed.

When jobs are recorded: Should additional degrees of completion be recorded, the total time is: the sum of recorded times/degree of completion and the remaining time = total time - sum of recorded times. If no degree of completion is recorded, the estimated duration of the job is used as the total time and the remaining time is calculated as total time - sum of the recorded times.

If no duration for the job is specified, the plan for this employee is canceled and a message is displayed.

Note: Unlike the variants II and III, this chart does not take into account the planned periods of work packages! This chart is used for disposition of employees without any assignment to projects (for example, for support).

Files	set																	? X
Capacity utilis	atio	n eva	aluat	ion														
	2009																	
	Dece	nber																
	Week	51					_	Week 5	2						Week 53	í		
-	15 T)	ie 15	Wed	17 Thu	18 Fri	19 Sat	20 Sun	21 Mor	22 Tue	23 Wed	24 Thu	25 Fri	26 Sat	27 Sun	28 Mon	29 Tue	30 Wed	31 Thu
Conner Jane														-				
Griffith lean															-	-	-	
Hahn Katrina																		
Jane Conner																		
Jones Timothy																		
Tate Adam										_								
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Capacity Utilisation Evaluation II

The **Capacity Utilisation Evaluation II** chart generates an overview of all tasks of the employees, which are employee-related and lists them according to the priorities. In this variant, the priorities as the first level are ignored and the plan period is considered as a criterion of the sequence. A further difference to variant I is information is displayed, when the tasks due to lack of capacity can not be completed on time.

Note: The algorithm of this analysis is described in capacity evaluation I.

		evaluat	lion II															
	2009																	
	Decemt	ber:																
	Week 5	1			_		Week 52				Week 53							
	15 Tue	16 Wed	17 Thu	18 Fri	1.9 Sat	20 Sun	21 Mon	22 Tue	23 Wed	24 Thu	25 Fri	26 Sat	27 Sun	28 Mon	29 Tue	30 Wed	31 Th	
onner Jane																		
riffith Jean													-					
ahn Katrina		2																
ine Conner		_			-													
ones Timothy		-		_										-				
	📕 II	liness																
	H H	loliday																
	P	roject 7	Update	Project	ile (°1)													
			. (* 3)															
	N	lo projec	t (*2)															
	N	lo projec roject 6	t (*2) OM-Mc	ndule (*	1)													
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	N	lo projec Toject 6 Toject 11	t (*2) QM-Mc L Projec	odule (* t LB 3-	1) 9 Devel	opment	(*1)											
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Capacity Utilisation Evaluation III

The **Capacity Utilisation Evaluation III** chart generates an overview of all tasks of the employees, which are employee-related and lists them according to the priorities.

In the first row of the employees the utilisation capacity of the employees are in three categories (red - overloaded, yellow - busy and green - normal usage). The threshold values can be set by the user (upper and lower capacity utilization capacity limit). In addition, the first line of each employee contains also the planned absences (in the example, holidays).

In the lines under the name of all employees, all jobs of the employees are displayed, in order to resolve resource conflicts by capacity overloads.

Note 1: The algorithm of this chart is described in capacity evaluation I.

Note 2: Periods without utilisation capacity or planned absences is for the evaluated employee absolute under-utilisation!

Fileset

Capacity utilisation evaluation III 2009 October December November 40 41 42 43 44 45 46 47 48 49 50 51 52 53 Conner Jane 10-1 Project Management 11-3 Sales 11.1-1 Customizing 4.3 12-1 Customizing 12-2 Development 2-2 Programming Projectile 2.7 6-2 Customizing 7-1 Concept for combining Projectile and SAP CO/FI 8 progamming Projectile Griffith Jean 6-2 Customizing 6-3 QM-Module 6-4 OM-Module 5.50 lane Conner 6-1 Projectmanagement Jones Timothy 11-1 Development 1.1 7-1 Concept for combining Projectile and SAP CO/FI Tate Adam 11-1 Development 1.1 OverLoaded (>100.0%) FullCapacity (>80.0%) Normal Vacation taken Time entries for job

Capacity Evaluation I

The **capacity chart I** generates an employee-based list of all planned tasks of the employee. These holidays and the absences of the employees are taken into account.

The project periods resulting from the sum of all scheduled tasks of the employee during the view period. Determing the individual plan periods in the viewing interval, the plan times of jobs under the assumption of uniform distribution are determined. The actual times or remaining time/effort or degree of completion are considered.

The working hours resulting from the planned working time of the employee, taking into account the planned absences (vacation, sick leave, maternity, ...).

The maximum capacity is then the quotient of the planned project time and the scheduled working time in the given interval, under the assumption that the planned projects will also be active. The value of the probable utilization capacity also takes into account the project probability of the passive projects and plans the project times for these tasks only proportionally. The spare capacity is calculated as the difference between the maximum utilization of an employee (from the master data) and the maximum capacity utilization in the given period.

The chart can also graphically illustrate the planned capacity, if the option is set to "with image".

Kapazitätenau	swertung l							
Mitarbeiter	Projekt	Arbeitspaket	Kunde	Projektzeit [h]	Arbeitszeit [h]	Max. Auslastung [%]	Wahrscheinl. Auslastung [%]	Freie Kapazität [%]
Schaub Peter	25 Einführung Projectile	25-1 Projektleitung	Vattenfall Europe	20,78		10,39	0,00	
	KKS.2 Customizing	KKS.2-01 Installation Testsystem	CONSULT GmbH	3,13		1,57	1,57	
	KKS.2 Customizing	KKS.2-03 Stammdaten importieren	CONSULT GmbH	12,00		6,00	6,00	
	KKS.2 Customizing	KKS.2-04 Erweiterungen (Patienten, Prüfzentren,)	CONSULT GmbH	24,00		12,00	12,00	
	KKS.2 Customizing	KKS.2-05 Schnittstellen	CONSULT GmbH	24,00		12,00	12,00	
	MSP Projectile 3.0	MSP-1 Projektleitung		0,43		0,22	0,22	
	MSP.4 Entwicklung	MSP.4-1 Überarbeiten der Funktionsbeschreibungen		0,35		0,17	0,17	
	MSP.4 Entwicklung	MSP.4-4 Entwickeln des Codes		5,18		2,59	2,59	
	UBS01 Einführung Pm-Software	UBS01-1 Projektleitung	BMW AG	17,22		8,61	8,61	
	UBS01 Einführung Pm-Software	UBS01-2 Neue Aufgabe	BMW AG	8,61		4,31	4,31	
	UBS01.1 Planung	UBS01.1-1 Konzeptgespräche	BMW AG	3,67		1,84	1,84	
Summe				119,37	200,00	59,69	49,30	40,31
Schröder Sandra	25.2 Softwareanforderungen und Entwurf	25.2-1 Testinstallation und Schulung Testteam	Vattenfall Europe	40,00		12,50	0,00	
	25.2 Softwareanforderungen und Entwurf	25.2-2 Erstellen des internen Specs	∨attenfall Europe	24,00		7,50	0,00	
	25.2 Softwareanforderungen und Entwurf	25.2-3 Überprüfen der Anforderung mit dem Team	Vattenfall Europe	4,00		1,25	0,00	
	25.3 Customizing	25.3-1 Einarbeitung Konfiguration und Berechtigung	Vattenfall Europe	16,00		5,00	0,00	
	25.3 Customizing	25.3-2 Anpassung Stammdaten	Vattenfall Europe	40,00		12,50	0,00	
	25.3 Customizing	25.3-3 Entwickeln eines Prototyps anhand der Funktionsbeschreibungen	∨attenfall Europe	32,00		10,00	0,00	
Summe				156,00	320,00	48,75	0,00	51,25

Capacity Evaluation II

The **capacity assessment II** generates an employee-based overview of all planned tasks of the employee (in contrast to variant I) for any period in the given time span. In the tabular display, however, only the planned percental project times of the employee are listed of the periods. The periods can be selected by the user in the "Parameters" tab (default is weekly).

The project times and working times are calculated analogue to variant 1.

The chart can also graphically illustrate the planned capacity, if the option is set to "with image".

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Kapazitätenauswertung II: 04.09.2006 - 29.10.2006

(Alle Werte in %)

Mitarbeiter	Projekt	KW 36	KW 37	KW 38	KW 39	KW 40	KW 41	KW 42	KW 43
Schaub Peter	25 Einführung Projectile passiv	6,49	6,49	6,49	6,49	6,49	6,49	6,49	6,49
	KKS.2 Customizing passiv	45,51	35,51	45,51	31,30	0,00	0,00	0,00	0,00
	MSP Projectile 3.0 aktiv	0,90	0,18	0,00	0,00	0,00	0,00	0,00	0,00
	MSP.4 Entwicklung aktiv	11,51	2,30	0,00	0,00	0,00	0,00	0,00	0,00
	UBS01 Einführung Pm-Software aktiv	10,42	10,42	10,42	10,42	10,42	10,42	2,08	0,00
	UBS01.1 Planung aktiv	2,70	2,70	2,70	1,08	0,00	0,00	0,00	0,00
	Abwesenheiten	100,00	100,00	0,00	0,00	0,00	0,00	100,00	0,00
	Summe	177,53	157,60	65,12	49,29	16,91	16,91	108,58	6,49
Schröder Sandra	25.2 Softwareanforderungen und Entwurf passiv	0,00	100,00	70,00	0,00	0,00	0,00	0,00	0,00
	25.3 Customizing passiv	0,00	0,00	0,00	140,00	80,00	0,00	0,00	0,00
	Summe	0,00	100,00	70,00	140,00	80,00	0,00	0,00	0,00



Capacity Evaluation III

The capacity evaluation chart generates an employee-based overview of all tasks of the employees

(in contrast to variant I) for any period of the given time-span. In the tabular display, the planned absolute project times of the employee of the periods are listed. The expenses are multiplied by the system with the respective internal hourly rates and yield the projected cost per period, the planned expenditures with the external hourly rates resulting revenue. The periods can be selected by the user in the tab "Parameters" (default week).

The project times and working times are calculated analogue to variant 1.

The chart can also graphically illustrate the planned capacity, if the option is set to "with image".

💥 🤋 🗋	Dateien																
Mitarbeiter	Projekt	Arbeitspaket	KW 36 Stunden	KW 36 Interner Stundensatz	KW 36 Externer Stundensatz	KW 36 Kosten	KW 36 Erlöse	KW 37 Stunden	KW 37 Interner Stundensatz	KW 37 Externer Stundensatz	KW 37 Kosten	KW 37 Erlöse	KW 38 Stunden	KW 38 Interner Stundensatz	KW 38 Externer Stundensatz	KW 38 Kosten	KW 38 Erlöse
Schaub Peter	MSP.4 Entwicklung	MSP.4-1 Überarbeiten der Funktionsbeschreibungen	0,29	73,00	0,00	21,01	0,00	0,06	73,00	0,00	4,20	0,00	0,00	73,00	0,00	0,00	0,00
Schaub Peter	MSP.4 Entwicklung	MSP.4-4 Entwickeln des Codes	4,32	73,00	0,00	315,11	0,00	0,86	73,00	0,00	63,02	0,00	0,00	73,00	0,00	0,00	0,00
Schaub Peter	MSP Projectile 3.0	MSP-1 Projektleitung	0,38	73,00	100,00	26,26	35,97	0,07	73,00	100,00	5,25	7,19	0,00	73,00	100,00	0,00	0,00
Schaub Peter	UBS01.1 Planung	UBS01.1-1 Konzeptgespräche	1,08	73,00	100,00	78,81	107,95	1,08	73,00	100,00	78,81	107,95	1,08	73,00	100,00	78,81	107,95
Schaub Peter	UBS01 Einführung Pm-Software	UBS01-1 Projektleitung	2,78	73,00	100,00	202,78	277,78	2,78	73,00	100,00	202,78	277,78	2,78	73,00	100,00	202,78	277,78
Schaub Peter	UBS01 Einführung Pm-Software	UBS01-2 Neue Aufgabe	1,39	73,00	0,00	101,39	0,00	1,39	73,00	0,00	101,39	0,00	1,39	73,00	0,00	101,39	0,00
Schaub Peter	KKS.2 Customizing	KKS.2-04 Erweiterungen (Patienten, Prüfzentren,)	5,33	73,00	100,00	389,33	533,33	13,33	73,00	100,00	973,33	1.333,33	5,33	73,00	100,00	389,33	533,33
Schaub Peter	KKS.2 Customizing	KKS.2-05 Schnittstellen	0,00	73,00	100,00	0,00	0,00	0,00	73,00	100,00	0,00	0,00	12,00	73,00	100,00	876,00	1.200,00
Schaub Peter	KKS.2 Customizing	KKS.2-01 Installation Testsystem	0,87	73,00	100,00	63,48	86,96	0,87	73,00	100,00	63,48	86,96	0,87	73,00	100,00	63,48	86,96
Schaub Peter	KKS.2 Customizing	KKS.2-03 Stammdaten importieren	12,00	73,00	100,00	876,00	1.200,00	0,00	73,00	100,00	0,00	0,00	0,00	73,00	100,00	0,00	0,00
Schaub Peter	25 Einführung Projectile	25-1 Projektleitung	2,60	73,00	0,00	189,61	0,00	2,60	73,00	0,00	189,61	0,00	2,60	73,00	0,00	189,61	0,00
Schaub Peter: Abwesenheiten			40,00					40,00					0,00				
			71,01			2.263,77	2.241,99	63,04			1.681,87	1.813,22	26,05			1.901,40	2.206,02

The following version is often accessible for the project manager by the administrator (without internal and external rates, configured in the ReportDesigner):

🔀 🦻 🗋 Datei	ien										
Mitarbeiter	Projekt	Arbeitspaket	KW 36 Stunden	KW 36 Kosten	KW 36 Erlöse	KW 37 Stunden	KW 37 Kosten	KW 37 Erlöse	KW 38 Stunden	KW 38 Kosten	KW 38 Erlöse
Schaub Peter	MSP.4 Entwicklung	MSP.4-1 Überarbeiten der Funktionsbeschreibungen	0,29	21,01	0,00	0,06	4,20	0,00	0,00	0,00	0,00
Schaub Peter	MSP.4 Entwicklung	MSP.4-4 Entwickeln des Codes	4,32	315,11	0,00	0,86	63,02	0,00	0,00	0,00	0,00
Schaub Peter	MSP Projectile 3.0	MSP-1 Projektleitung	0,36	26,26	35,97	0,07	5,25	7,19	0,00	0,00	0,00
Schaub Peter	UBS01.1 Planung	UBS01.1-1 Konzeptgespräche	1,08	78,81	107,95	1,08	78,81	107,95	1,08	78,81	107,95
Schaub Peter	UBS01 Einführung Pm- Software	UBS01-1 Projektleitung	2,78	202,78	277,78	2,78	202,78	277,78	2,78	202,78	277,78
Schaub Peter	UBS01 Einführung Pm- Software	UBS01-2 Neue Aufgabe	1,39	101,39	0,00	1,39	101,39	0,00	1,39	101,39	0,00
Schaub Peter	KKS.2 Customizing	KKS.2-04 Erweiterungen (Patienten, Prüfzentren,)	5,33	389,33	533,33	13,33	973,33	1.333,33	5,33	389,33	533,33
Schaub Peter	KKS.2 Customizing	KKS.2-05 Schnittstellen	0,00	0,00	0,00	0,00	0,00	0,00	12,00	876,00	1.200,00
Schaub Peter	KKS.2 Customizing	KKS.2-01 Installation Testsystem	0,87	63,48	86,96	0,87	63,48	86,96	0,87	63,48	86,96
Schaub Peter	KKS.2 Customizing	KKS.2-03 Stammdaten importieren	12,00	876,00	1.200,00	0,00	0,00	0,00	0,00	0,00	0,00
Schaub Peter	25 Einführung Projectile	25-1 Projektleitung	2,60	189,61	0,00	2,60	189,61	0,00	2,60	189,61	0,00
Schaub Peter: Abwesenheiten			40,00			40,00			0,00		
			71,01	2.263,77	2.241,99	63,04	1.681,87	1.813,22	26,05	1.901,40	2.206,02

Calendar Overview Evaluation I

This calendar overview generates an overview of the presence and absence of selected employees of the given time span. This variant displays all absences (vacation, illness, maternity, ...).

💥 🍃 🗋	Dateien								
Kalenderübersicht I									
	2004								
	Februar	/ärz /A							
	5 Woche 6 Woche 7 Woche 8 Woche 9 1	Noche 10 Woche 11 Woche 12 Woche 13 Woche 14							
D () (0)									
Batzeck Klaus									
Miller Frank									
Miller John									
Müller Julia									
Schaub Peter									
Schröder Sandra									
	Wochenenden und Feiertage								
	Kein Arbeitstag								
	Anwesend								
	Urlaub								
	Krank								

Calendar Overview Evaluation II

The calendar overview II generates a summary of the attendance and absence of selected employees during the period. This variant displays the absences only in general terms and does not differentiate in the absence types.



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