

WHITE PAPER

RAV

The audit-proof accounting in BS2000/OSD environment

Issue September 2009

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Introduction

RAV (Rechenzentrum Abrechnungsverfahren) is the standard accounting system in BS2000/OSD.

With RAV, the various services that a computer center provides for its customers can be traced and recorded so that accounting is both suitable for auditing purposes and originator-based.

RAV evaluates the accounting data generated by the BS2000/OSD Basic Configuration, *openUTM*, File Transfer, *SESAM/SQL* and *VM2000*.

Manually collected supplementary data can also be imported via dedicated interfaces.

By allocating the actual costs to the appropriate source, it is possible to provide a clear and accurate picture of incurred costs, which in turn forms the basis for a differentiated cost and price structure.

Therefore RAV will interest BS2000 customers who wish to perform accounting on the basis of cost allocation at source for production costs in the computer center.



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Tailored to suit particular operating structures

RAV can be tailored to suit particular operating structures and can be used for freely fixing charge rates. RAV generates detailed accounting documentation providing a clear overview of the costs incurred within freely definable accounting periods (e.g. for particular users and user groups, resources, cost centers, projects or customers).

If you want to keep a close eye on your costs, RAV is what you need! Excerpt of computer costs per cost center and detailed overview for a particular user.

USER		USER GROUP	USER ACTIVITY	COMP KEY	PRINC: RESOURCE TYPE	PRODUCTION COSTS EUR	INVOICE VALUE EUR			
USERID	ACC-NR	USERCONF	ACC-ID	JOB CODE						
COGSEV1	COGYS02D999ZE01			COGNITAS-SYSTEM	D999ZE01	G++ DEVICES BE2000	0			
				COGNITAS-SYSTEM		G++ SPOOL	21			
				COGNITAS-SYSTEM		2++ BS2000	22			
COGSEV3	COGYS02			COGNITAS-SYSTEM	D999ZE01	G++ DEVICES BE2000	0			
				COGNITAS-SYSTEM		G++ SPOOL	19			
				COGNITAS-SYSTEM		2++ BS2000	84			
COGSEV4	COGYS02			COGNITAS-SYSTEM	D999ZE01	G++ DEVICES BE2000	0			
				COGNITAS-SYSTEM		G++ SPOOL	61			
				COGNITAS-SYSTEM		2++ BS2000	27			
				COGNITAS-SYSTEM		7++ BLOCK TIME	1080			
						1080	1080			
JOB#	RUN START	TIME ENDE	S U P	RT:201 CPU TIME	RT:210 JOBS NUMBER	RT:212 CPU/RPF MILLISEC	RT:279 TOTIOG I/O'S	RT:	RT:	TOTAL EUR
TSN	DD/HH:MM	DD/HH:MM	F I	MILLISEC	SECS					
	11.	1999								
4098	18/07:26	18/07:39	8	313	742	2	10313	184		0,19
1599	29/08:50	29/10:29	8	12794	5977	1	422196	5629		6,12
1684	29/10:00	29/10:19	8	7428	1174	3	245115	3081		3,39
1842	29/11:51	29/12:00	8	19487	1988	5	646371	8902		9,72
1929	29/13:56	29/14:00	8	177	229	1	5854	56		0,07
2076	29/16:06	29/17:00	8	20368	3259	1	672141	11382		11,97
2082	29/16:17	29/16:41	8	60388	1456	6	1992820	27024		29,31
2127	29/16:47	29/16:56	8	5408	512	4	178464	2850		3,01--
TOTAL				126463	15337	23	4173274	59108		63,78
COG13	COGMANDE			COGNITAS-MANUALE	D999ZE01	F++ FILE-TRANSFER	0	0		
				COGNITAS-MANUALE		G++ SPOOL	7	7		
				COGNITAS-MANUALE		2++ BS2000	3	3		
MANFRED	D999UNIX			COGNITAS-SYSTEM	D999UNIX	X++ SINIX	26	26		
				COGNITAS-SYSTEM	D999ZE01	F++ FILE-TRANSFER	3	3		
				COGNITAS-SYSTEM		G++ DEVICES BE2000	0	0		
				COGNITAS-SYSTEM		G++ SPOOL	23	23		
				COGNITAS-SYSTEM		2++ BS2000	50	50		
AIERMANNOGMAN14	D999UNIX			COGNITAS-MANUALE-14	D999ZE01	G++ SPOOL	26	26		
				COGNITAS-MANUALE-14		2++ BS2000	41	41		
MMAYER	COGMAN03D999ZE01			COGNITAS-MANUALE-03	D999ZE01	G++ DEVICES BE2000	0	0		
				COGNITAS-MANUALE-03		G++ SPOOL	34	34		
				COGNITAS-MANUALE-03		2++ BS2000	64	64		
SESAM	COG9999 D999ZE01			COGNITAS-DB	SESAM-DATENDANK	D999ZE01	F++ FILE-TRANSFER	0	0	
				COGNITAS-DB	SESAM-DATENDANK		G++ SPOOL	0	0	
				COGNITAS-DB	SESAM-DATENDANK		E++ SESAM	27	27	
				COGNITAS-DB	SESAM-DATENDANK		2++ BS2000	3	3	
SHUBERT	COGPERE D999UNIX			COGNITAS-PA	D999UNIX	X++ SINIX	1	1		
COGUSER5COGTEMP	D999ZE01			COGNITAS-TEMP	D999ZE01	U++ UTM	0	0		
COGUSER6COGTEMP				COGNITAS-TEMP	D999ZE01	U++ UTM	0	0		
VM0002				COGNITAS-VM	D999ZE01	V++ VM2000/GER. VM200	6455	6455		
SROBING	COGPERE D999UNIX			COGNITAS-PA	D999UNIX	X++ SINIX	173	173		
				COGNITAS-PA	D999ZE01	F++ FILE-TRANSFER	2	2		
SADYES4	COGSAPR3D999R3E3			COGNITAS-SAP	SAP R/3-ADMICHLUNG	D999R3E3R++ SAP/R3	13063	13063		
*** TOTAL						COST CENTER	***	21638	21638	

How RAV works

The input for the RAV accounting run can be taken from accounting data, generated by the BS2000/OSD system and the BS2000 products VM2000, SESAM/SQL, openUTM, File Transfer, or it can be entered manually. RAV presents its results in the form of documentation for customers, computer centers and accounting departments, either as lists or as standardized files for individual invoicing preparation and for follow-up accounting processing. Accounting is based on monthly, quarterly and yearly values in accordance with user, project and configuration hierarchies. These hierarchies are defined in the master data file.

The tasks performed by RAV can be split into 4 functional stages

Compression

- Enters accounting data
- Creates standardized data

Calculation of values

- Calculates charge rates
- Generates error logs
- Checks master data

Accounting

- Creates advice notices
- Generates monthly files
- Provides files for accounting follow-up processing

Reports / Saving

- Prints various lists
- Archives files
- Generates log, statistical lists, analyses

How to use RAV

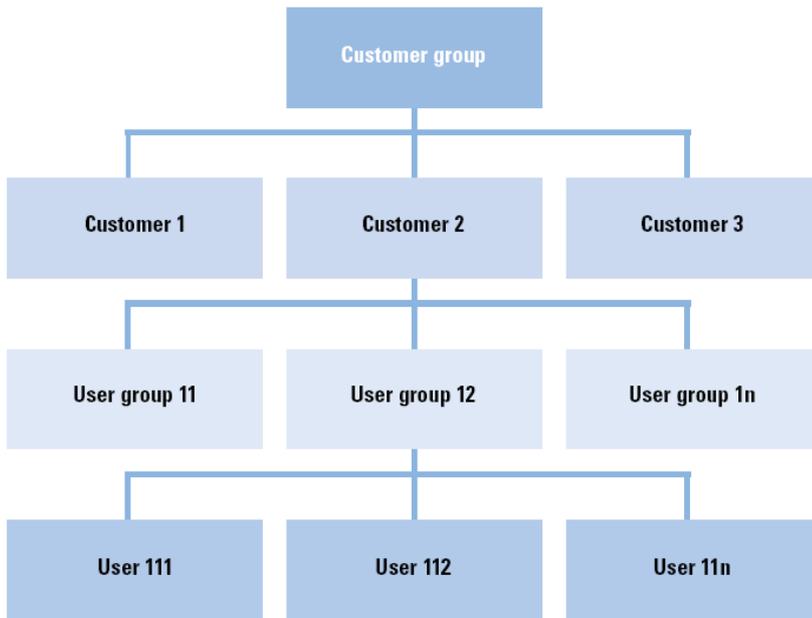
RAV's modular structure allows the internal accounting procedures to be customized to reflect the organizational and commercial makeup of your company. This customizing facility covers not only the creation of the parameter file but also the modeling of the master data.

The organizational structure of your company is mapped onto the master data file and can be modified in line with changing operational developments at any time. The master data file can be edited in dialog or batch mode and printed out using help procedures.

The master data file contains:

User-specific information

- definition of the users to be invoiced (user IDs, account numbers)
- definition of user structures and their allocation to cost centers
- allocation of price groups and special charge rates



(User = User ID + Account No.)

Computer center-specific information

- definition of the operating environment and its equipment, configurations, departments
- assignment of charge rates to devices and configurations
- definition of the connection between user and computer center

Information on charge rates

- definition of what resource types are to be invoiced
- definition of the prices per resource type and of special charge rates
- definition of price attributes (dependent on job type, priority, time of day)

Fujitsu Technology Solutions offers

- efficient consulting and support when introducing cost allocation based on RAV
- optimum redesign of your RAV application
- complete outsourcing of your IT accounting activities, i.e. end-to-end implementation in situ:
You provide the accounting data, we return invoice data and analyses.