

CISU

PBS archive add on

for IS-U/CCS

Manual Part B

– Administration –

Compatible with
- IS-U/CCS Release 4.64
- IS-U/CCS Release 4.72
- IS-U/CCS Release 6.0

April 2010

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Information Lifecycle Management

Information Lifecycle Management (ILM) means the administration of information related to the time when it is used, taking into account its total costs and compliance. A conclusive, efficient ILM concept must, as a result, control data growth, manage retention rules, and also ensure compliant data storage. Furthermore, an easy access to archived data is decisive and, for example, its transfer during internal and external audits.

PBS ILM Concept

PBS software provides existing SAP customers extensive solutions to put into practice the requirements that were described above for a stringent and successful ILM concept. PBS is considered as an expert for complex, integrated data accesses to archived and database data and meanwhile, also to data that is located on decommissioned SAP systems. In addition to classical SAP data archiving, SAP BI-specific nearline storage is also supported.

PBS archive add ons®

PBS archive add ons always rely on SAP archiving having been carried out successfully. This is the basis for a permanently high-performing SAP system. In principle, you can indeed retain posted documents in the SAP database for a very long time due to a large database capacity. Depending on the document volume, this may result, however, in massive performance losses and, sooner or later, heavily increasing operation costs. The daily backup becomes difficult for large data stocks, for example.

A convenient display and evaluation of archived transaction data – as the SAP user is used to for database data – can often only be carried out in a very restricted manner using SAP standard means depending on the application module. This is particularly the case for large archive data stocks. The PBS archive add ons can be used here. They can be provided for nearly all SAP modules and release levels, and start with a "C" (for Complete) in their description. For example, PBS archive add on CCOPA for the SAP module COPA.

Using the PBS archive add ons you can quickly and easily access your archived data even after data archiving during your day-to-day business. The unrestricted data access is realized by an intelligent indexing concept. It extends the SAP archive infrastructure components and integrates itself optimally with SAP archiving. Archive data that has been indexed can still be provided after a release upgrade immediately, without restrictions, and without migration effort. The PBS archive index is stored in sequential files of the SAP file system in the same way as the SAP archive data. Afterwards, you can access the archive data online via the familiar transactions. The SAP user can display the data from the SAP database and the



archive data simultaneously via the PBS archive add on index. For the user, it seems as though the archived data is still in the SAP database.

The deep integration of the PBS transactions also enables direct navigation to subsequent and previous documents both within the indexed SAP module as well as to linked documents from other SAP modules. This applies not only for resident but also without restrictions for archived data. The benefit for the user increases the more PBS archive add ons are used.

The potential benefits of the ILM concept raises substantially if you take into account the savings that result from the SAP mirror systems. There are usually at least two of them meaning that the saved disk storage can be tripled by performing data archiving. Thus, time is saved for the data backup.



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1. Introduction

The **PBS archive add ons** are constructed in modular form and cover the application modules FI, SD, MM, CO, CISU etc. with a special program package for exactly this application. You can easily see from the name which *PBS archive add on* belongs to which SAP module: CFI, CISU, CSD, CMM, CCO etc. All *PBS archive add ons* have in common that they can be easily installed in the SAP R/3 system via the SAP transport utilities "**tp**" and "SAINT". For installation details of the *PBS archive add ons* please see the specific installation manual (manual part A).

This administration manual was written to make construction and administration of the *PBS archive add on CISU* as easy as possible. At first, data archiving with transaction SARA is discussed; the second topic is the construction of the *PBS archive add on CISU* from the SAP archive files.

The modular user manual of each *PBS archive add on* is composed of partial manuals:

- Part A: Installation
- Part B: Administration, Archive Construction and Maintenance
- Part C: Application Programs / Transactions

There are additional manuals for the PBS utilities: Conversion Tool, Archive Browser, Translation Tool.

Should you have questions regarding the installation of the *PBS archive add ons* or if you have problems when installing the software please call directly the **Service Hotline of PBS Software GmbH**:

Phone:	+49 - 6251 - 174 110
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Release Compatibility

The **PBS archive add on CISU** discussed in this manual runs with the basis programs of SAP AG, D-69190 Walldorf/Baden, **IS-U/CCS**, releases 4.64.



2. Overview of the PBS archive add on CISU

2.1. Nomenclature

In this manual we use the term *Archiving* completely in the SAP sense: Processes controlled by SAP programs such as the checking of documents regarding their archivability, the writing of these documents to sequential archive files and the removing of the documents from the database are collectively called *Archiving*. The archiving is controlled centrally by the SAP transaction SARA.

With the *PBS archive add on CISU*, PBS now provides a program package which allows the user to access the SAP archive files in online operation as if they had never been archived. Also, in order to completely relieve the database from index data, the documents on the SAP archive files are read by our load programs and transferred into the file system, completely with all necessary index information. This process is called *Loading* and *Setup* of the *PBS archive add on CISU*.



2.2. Navigation

The delivery of the *PBS archive add on CISU* contains range menus /PBS/PBS (main menu of the PBS modules) and /PBS/ CISU. From these menus, you have to generate now roles which then can be integrated into the user master. You can also create a role directly from the Easy Access menu.



Diagram 1: SAP Easy Access Menu

You are free to choose the name of the role; the name can also be within the PBS naming area. A PBS range menu is then transferred by pressing the function key *'Transfer menus from range menus'* by indicating the corresponding PBS menu name. During the transfer, the system query for the resolution of the range menu is to be answered with 'yes'.

The role group created this way can now be integrated in the corresponding user master. We recommend to allocate global role /PBS/PBS to the administrators and the special function menu /PBS/CISU to the end users.

Use	er		STEFFEN										
Las	t changed b)y	STEFFEN		12.09.	2000	13:08:	33	St	tatus	Saved		
7	Address Logon data Defaults Parameters Roles Profiles Groups												
Reference user for additional rights													
	Role					Тур	Valid fr	om	Valid to	1	'ext		
	/PBS/	PBS				- 🕒	01.01	. 0001	31.12.9	9999			
													•

Please see the current SAP standard documentation for more details on the creation of roles.



2.3. Basic Information on the PBS archive add on CISU

The administrative activity of *PBS archive add ons* is to set up and activate the PBS main and long-term archive and to analyze them in the event of problems using the tools supplied.

The structure and usage of the *PBS archive add on CISU* always requires successful data archiving with SAP tools and access to the archive data created using these. From 4.0B, this access can also be implemented via an optical archive system with "Archive Link". The status of the archive file must always be set to "accessible".

The PBS archive add on CISU uses archiving runs of the archiving objects:

ISU_PRDOCL	Print document lines
ISU_PRDOCH	Print document headers
ISU_BILLZ	Billing document lines
ISU_BILL	Billing document headers
ISU_BBP	Budget billing plans
ISU_EABL	Meter reading results
ISU_BCONT	Business partner contacts
ISU_FACTS	Installation facts
ISU_SETTLB	Settlement documents
ISU_SWTDOC	Switch documents
ISU_PROFV	Profile values
INV_REMADV	Bill/Payment Advice Note
INV_TRANSF	Transfer Table for Bill Data to FI-CA
ISU_EORDER	Waste disposal orders
ISU_ROUTE	Display routes

The SAP archiving program is executed in transaction SARA. Standard archiving is not described in this manual.

The status of the archive files for the individual archiving runs can be determined in transaction SARA. The deletion run of SAP archiving must be successfully executed in order for documents to be displayed correctly and for the purposes of reporting via the *PBS archive add on*.

The archiving object /PBS/CISU, which is managed in the standard SAP tables in the same way as all other SAP archiving objects is also delivered with the PBS archive add on CISU.

The PBS indices setup for all archiving objects that are considered by PBS is managed in the tables ADMI_RUN and ADMI_FILES under the object name



/PBS/CISU. For example, a document number is defined in table ADMI_FILES for each PBS indexing run of an archiving object. The next free document number is determined from table ARCH_NUM.

PBS Main Archive and Long-Term Archive

The generated SAP archiving runs are read and filed in the file system of the application server for the purposes of efficient access to secondary indices via the PBS load program /PBS/CISU_LOAD. These secondary indices refer to the archived SAP files. Table /PBS/CISU_INDEX contains the data on which indices are set up from which tables. The indices form the main PBS archive and can be transferred if necessary to the long-term archive, split by fiscal year, for example. The runtimes of the new load runs are reduced by storing the indices in the long-term archive, as the time required for merging the indices depends on the quantity of indices already in the main archive. The long-term archive can also be stored on other media, such as tape. The disk space that is required on a permanent basis is thus reduced.

The indices of newly archived data is merged with the indices in the main archive by the CISU load program and new and old indices are thus sorted consistently again. The indices in the long-term archive remain unaffected by this.

SAP Archive Info Structures

The SAP archive information system (AS) is used for retrieval in the data archives. Search and display is carried out using archive information structures, some of which are delivered as standard by SAP but which can also be defined by users and filled with archive data.

The archive info structures are filled in the deletion phase of the archiving process. If the PBS archive add on CISU is used, the SAP archive info structures do not need to be filled. First of all, they occupy unnecessary disk space in the database and secondly the PBS software provides extensive functionality for the search and display of archived data, so that it is not necessary to use the SAP standards in this case.



3. CISU Administration Board

Transaction /PBS/CISU_ABO calls up the central PBS archive administration menu. All PBS indices of the archiving objects included in CISU are managed here.

Main Indices:

Ma at Edit minist	in indic <u>Check</u> <u>©</u> e tration B	es Nerate System System N N N N N N N N N N N N N	Help ⓒ ଊ ଊ । ⊒ 6 Main ind Ճ ℚ ⊙) 尙 段 원 연 & 오 dices	<u>*</u> 2 9 F	_	_
Main ind	dices Lg	term indices					
Index	created on	User	ADK status	PBS status	Oldest archive file	Recent archive file	Archiving object
00745	18.04.2006	DIAMANTIDIS	Complet	te 💿 Main index active	23.12.2005	28.12.2005	ISU_PROFV
00743	18.04.2006	DIAMANTIDIS	Complet	te 👓 Main index active	06.01.2005	29.07.2005	ISU_PRDOCH
00742	18.04.2006	DIAMANTIDIS	Complet	te 👓 Main index active	06.01.2005	18.01.2006	ISU_PRDOCL
00741	18.04.2006	DIAMANTIDIS	Complet	te 🛛 👀 Main index active	07.01.2005	07.02.2006	ISU_BILL
00740	18.04.2006	DIAMANTIDIS	Complet	te 👓 Main index active	07.01.2005	29.07.2005	ISU_BILLZ
00737	18.04.2006	DIAMANTIDIS	Complet	te 👀 Main index active	01.02.2005	09.03.2006	ISU_BBP

Diagram 2: Administration Board "Main indices"

- Index Document number of PBS archiving run
- Created on Creation date of PBS archive



PBS archive add on CISU for SAP IS-U/CCS

User	Creator of PBS archive
ADK status	SAP status of archive
PBS status	PBS status of archive
Meaning of the traf	fic lights colors for the PBS status:
green	all archive files are indexed
yellow	archive files exist, but not all indices are generated
red	no archive files available
Oldest archive file	date on which the first file of this archive was created
Latest archive file	date on which the latest file of this archive was created
Archiving object	name of archiving object



Long-term indices:

Lq-term indices

Main Indices Lg-term Indices										
Index	created on	User	ADK status	PBS status	Oldest archive file	Recent archive file	Archiving object	Comment	Batch	User
00744	18.04.2006	DIAMANTIDIS	Complete	Long-term index active	23.11.2005	14.12.2005	ISU_PROFV			
_										
									_	
_									_	
_									_	
_									_	
										1

Diagram 3: Administration Board "Long-term indices"

additional fields:

Comment	Descriptive text for the archive (is defined in the tables /PBS/CISU_RUN and Admi_Run)					
Batch	with a checkmark: archive can only be processed with a back- ground job					
	without a checkmark: online processing is possible					
User group	Only the user group defined here is allowed to process the ar- chive.					

Maintenance table of user groups: /PBS/CFICA_USER.

You can also access the maintenance table for the user group via the icon $\ensuremath{\textcircled{\sc op}}$.



3.1. The Load Program

PBS Main Archive Setup

🗁 List Edit Check Generate System H	lelp						
	G 🙆 🚷 i 🖴 🛙	ង 🕼 ខេង មិ សិ សិ ន	🕱 🔁 I 🕜 📑				
Administration Board CISU -	6 Main indi	ces					
388 ⇒ < ◎ * ¥ 18	3 🕄 🕒						
Main indices Lo-term indices							
Index created on User	ADK status	PBS status	Oldest archive file	Recent archive	file Archiving object		
00745 18.04.2006 DIAMANTIDIS	Complete	Main Index active	23.12.2005	28.12.2005			
00742 18.04.2006 DIAMANTIDIS	Complete	Main index active	06.01.2005	18.01.2005	ISU PRDOCL		
00741 18.04.2006 DIAMANTIDIS	Complete	Main index active	07.01.2005	07.02.2006	ISU_BILL		
00740 18.04.2006 DIAMANTIDIS	Complete	👀 Main index active	07.01.2005	29.07.2005	ISU_BILLZ		
00737 18.04.2006 DIAMANTIDIS	Complete	Main index active	01.02.2005	09.03.2006	ISU_BBP		
Ē							
<u>P</u> rogram <u>E</u> dit <u>G</u> oto System	<u>H</u> elp						
🕑 🔹 🗧	1 📙 I 😋 🥝) 😣 I 🖴 (H) (H) I	81 ዓ ዓ ዓ በ	🛒 🔁 🔞			
Generation program CIS	31						
	.0						
Ð			7				
Archiving object ISU_PRUUC							
	04 04 000	20					
Select Archive Archive Archive	01.04.200	0					
~			-				
Coad automatically from	01.04.200	max. number phys	. files				
		_					
O Delete old run	Run						
Document select:							
Process all documents							
Process sequential number range	e fro	om 1	to 9.999.9	99			
Merge							
Marga with archive 742	1 6	new archive					
S Merge Will define 142		U HOW WICHING					
Postnincess ning							
The following process to the test	matically						
The following procstare started auto	matically						
Create management indices							

Diagram 4



Edit <u>G</u> of		<u>H</u> elp			
Ø I		Ē	4 🛛 ⊨ (۵ 🚯 🛱 🗖 ا 😒 🔇) 12 🎝 🖇 🐹 🗾 🔞 📑
Index C	onstructi	on			
3					
IS	Industry S	olution	s		
G 😳	ISU_PROFV	IS-U A	rchiving:	EDM Profile Values	
۰۰۰ 🕀	ISU_PRDOCL	IS-U A	rchiving:	Print Document Line Ite	n 🖪
۰۰۰	ISU_PRDOCH	IS-U A	rchiving:	Print Docmt Header	
۰۰۰ 🕀	ISU_BILLZ	IS-U A	rchiving:	Billing line item	
۰۰۰ 🕀	ISU_BILL	IS-U a	rchiving:	billing document header	E
۰۰۰	ISU_BBP	IS-U A	rchiving:	Budget Billing Plan	E

Diagram 5:

Select archive

LE ^r <u>P</u> rogram <u>E</u> dit <u>G</u> oto System <u>H</u> e	lp						
🕑 🚺 🔍	📙 😋 😧 📮 🏭 🎼 🎝 🏠 🖓 🔛 🖉 🔮						
Generation program CISU							
\odot							
Archiving object ISU_PRDOCL							
Select Archive Archive	01.08.2005						
C Load automatically from	<mark>01.01.1900</mark> max. number phys. files						
O Delete old run	Run						



Here, you can select the archiving runs of the SAP archiving object ISU_PRDOCL that have been created in transaction SARA, which you can use to create the indices of the *PBS archive add on CISU* for the print document lines. All the respective SAP archiving runs that have been created since the date entered are displayed.

Diagram 6: Archiving Runs of the Archiving Object ISU_PRDOCL



Now select those SAP archiving runs that you want to load into your PBS archive. The system checks whether this run has already been loaded and issues an error message if applicable.

Load automatically from...

Select this parameter if you want to archive all billing document headers from a particular point in time without making an individual selection of billing document header archives. If these include SAP archives that you have archived in a previous run, they are not accepted into the PBS archive again.

The parameter "Max. number phys. files " indicates the maximum number of SAP ADK files that should be processed.

This function is used to automate the load runs and can be scheduled as a background job using a selection variant.

Delete old run

If you have already executed several load runs and want to delete one or more of these, you can display a list of the load runs that have been executed to date by selecting the button <u>**Run**</u>. You can now mark specific load runs and delete them. The IS-U archives to be deleted are then displayed. You can remove complete SAP archiving runs from the *PBS archive add on* using this method.

Document select: Process all documents				
O Process sequential number range	from	1 to	9.999.999	

Process all documents from receipt



In general, the switch 'Process all documents' should be activated. This ensures that all documents that are contained in the SAP archiving run arrive in the *PBS archive add on*.

Process sequential number range: from 1 to 9,999,999

If the *Paging area* in the system profile for sorting the indices is set too low, it might be advisable to execute several runs with a limited number of documents instead of processing all the documents at the same time. In this case, select the second option 'Process sequential number range' and enter the documents you wish to process in the following two fields. If, for example, you want to process 100,000 documents per run, enter 1 to 100,000 in the first run and enter 100,001 to 200,000 in the second run. Before using this method, you should first attempt to load the complete SAP archiving run by increasing the paging area.

Caution: You can switch off automatic recognition by the program to check whether a selected SAP archive has already been processed using the interval selection. Interval overlaps are not checked either.



The block 'Merge' is used only to provide information on the merge process.

• Merge with archive

If you select this button, the new archive is merged with the existing archive.

Merge Merge with archive	623	O new archive
Postprocess.prog. The following procs.are Create management	started automatic indices	cally

• New archive

If, however, you wish to create a new archive that must not be merged with the existing archive, select the option 'new archive'.

Before the program runs the first time, the button '**new archive'** is selected. In the following runs, the newly written index is merged with the existing index. The button '**Merge with archive**' is selected and the document number of the ADK file of the archiving object for the merge process is shown.

If you select the parameter 'Create management indices' in the block 'Postprocess.prog.' the management entries are automatically written to table /PBS/CISU_FILE. This function should always be active, as the archive data for the created indices is immediately accessible when the management table is automatically updated after the index generation program has terminated.

If the parameter is not selected, the management table has to be manually updated after the indexing run by executing report /PBS/CISU_FILE (transaction /PBS/CISU_FILE, option 'Activate main archive'). This variant of indexing can be advantageous for the runtime if several load runs need to be executed and you do not wish to access the archive during this time.



First PBS Load Run

Once you have made all the required entries in the selection screen of the load report /PBS/CISU_LOAD, the selection screen can be saved as a selection variant and started as a background process.

The *PBS archive add on CISU* needs to be set up for each client. Parallel operation of the load program is not permitted and is technically prevented.

After successful execution, the program /PBS/CISU_LOAD displays the following log:

⊡⊂ List <u>E</u> dit (<u>G</u> oto S <u>y</u> stem	<u>H</u> elp	
🔮		🛯 🔍 📙 1 😋 😧 😫 🖨 🛗 🎁 🍪 1 🏝 🖓 🔛 💭 🔝 💌	🕲 🖪
Generatio	n program	I CISU	
This is sup p	unhon 0000	02	
		02	
Objects for	selection sc	reen 1000	
OBJECT		ISU_PRDOCL	
selected for selected SAP	archive fil	es: = ISU_PRDOCL000667000667-001ISU_PRDOCL	
LOESCH ANZ DSN		0000	
ABAR_AUT		19000101	
AUTUMAT ABAR_MAN		20051201	
MANUELL ALL BEL		X	
NUR_BEL			
ANZ_VUN ANZ_BIS		9999999	
X_MRG DOCUMENT		X 999618	
X_NEW			
P_INDEX		X	
Delimitations			
ABAR_AUT P	19000101		
ABAR_MAN P ALL_BEL P	20051201 X		
ANZ_BIS P	9999999 0000		
ANZ_VON P	1		
ARCHEIST S AUTOMAT P	ISU_PRDUCLU	00667000667-0011SU_PRDUCL	
DOCUMENT P	000618 0		
H_LIST S	Č.		
LUESCH P LOESLIST S			
MANUELL P	Х		
OBJECT P	ISU_PRDOCL		
P_INDEX P	Х		

Diagram 7: Log of Load Program /PBS/CISU_LOAD



Further log information includes selections and time statistics (see Diagram 8), table statistics (Diagram 9), archive file (Diagram 10), archiving run (Diagram 11) and messages (Diagram 12).

Delimitat	ions					
ABAR AUT	Р	19000101				
ABAR_MAN	P	20051201				
ALL_BEL	P	X				
ANZ_BIS	P	9999999				
ANZ_DSN	P	0000				
ANZ_VON	P	1				
ARCHLIST	S	ISU_PRDOCL000667000667-001ISU_PRDOCL				
AUTOMAT	P					
DOCUMENT	P	000618				
HANDLE	P	0				
H_LIST	S					
LOESCH	P					
LOESLIST	S					
MANUELL	P	X				
NUR_BEL	P					
OBJECT	P	ISU_PRDOCL				
P_INDEX	P	X				
P_NUINP	P	X				
R3_VBART	P	N.				
X_MRG	P	X				
A_INEW	٢					
Time stat	isti	c				
Start of	oroc	essing: 09:42:42				
Start of	sort	ing: 09:42:44				
End of so	rtin	g: 09:42:44				
End of processing: 09:43:54						

Diagram 8: Log of Selections and Time Statistics



Table statistics					
No. objects read: No. objects proces	sed		38 38		
Table	records read				
DBERDL DBERDLB		14 24			
Index			written	read	IndexTab.
40001 DBERDZ-OPBE Statistics of arch	L ived objects		223.754	223.753	224

Diagram 9: Log of Table Statistics

Archive file: Size in MB:	000668-001/PBS/CISU N 2,348	umber of objects: 227	
Table	Number	Description	
/PBS/CISU HEAD	227	Header structure of secondary	indi
/PBS/CISU_LAUF	48	Table of runs PBS archive add	on C
/PBS/CISU_LOG /PBS/CISU SEKI	288 223.754	Log table structure for CISU Secondary indices CISU	

Diagram 10: Log of Archive File



Archiving session: 000668 Number	r of objects	3: 227	
Size in MB:	2,348		
lable	Number	Description	
/PBS/CISU HEAD	227	Header structure of su	econdary indi
/PBS/CISU LAUF	48	Table of runs PBS arcl	nive add on C
/PBS/CISU_LOG	288	Log table structure fo	or CISU
/PBS/CISU_SEKI	223.754	Secondary indices CIS	J
Constr. DDC suching odd on CICU or		a a multiplication of the	
LONSTR. PBS archive add on LISU SU	uccesstully	completed!	
ADUT_ROW			
000618 /PBS/CISU Deleted			
1 Entries in ADMI_H	RUN read !		
1 Entries in ADMI_H	RUN deleted	!	
ADMI_FILES			
000618_000618_001/PBS/CISH		Deted	
/usr/san/SII4/SYS/global/RBC1123	9 171854 DI	MANTIDI Deleted	
rush suprestrenergreburnbernzet	5.111004.011	borocod	
1 Entries in ADMI_H	FILES read !		
1 Entries in ADMI_H	RUN deleted	ļ	
1 Files deleted !			
Table /PBS/CISUFILE: 220	6 Entries 1	for run 000618 remove	ed
Archiv UUUbb8 deaktiviert		01 2006 00 42 45	
ADMIFILES 000008 000008-0017F	5376130 10. 4	01.2000 09.42.45	
ARCH_IDX 10040001010000000000	4	000001	
ARCH IDX 10040001010000005634	4	000001	
ARCH_IDX 10040001010000006634	4	000001	
ARCH_IDX 10040001010000007634	4	000001	
000001 000091-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS
000001 000133-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS
000001 000223-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS
000001 000225-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS
000001 000240-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS
000001 000244-001ISU_PRDOCL 00	0618	23.11.2005	DIAMANTIDIS

Diagram 11: Log of Archiving Run



Indices for run 000671 success. constructed ! CISU_RUN without ADMI_RUN: ADMI_RUN without CISU_RUN: Number of main or long-term archives 00006 00000 Error in CISU_LAUF without ADMI_RUN: Consistency CISU_LAUF and CISU_RUN: Consistency CISU_RUN and CISU_LAUF: Number of entries (archiving object and DB) Number of entries (archiving object and DB) Number of entries (archiving object and DB) Consistency CISU_LAUF (archiving object and DB) Consistency CISU_LAUF (DB and archiving object) Archive consistent

Diagram 12: Log of Messages



Data Backup

Data backup of the created files is recommended after each setup of the *PBS ar-chive add on*, but is not absolutely essential, as the load program can be restarted.

Name of archive files and paths

We recommend assigning path name and file name of the ADK files separately according to the archiving object – can be maintained using the transaction "FILE". A path name and a file name should be chosen for each archiving object in whose description the archiving object name is contained.

You should assign your own path name and your own file name for the PBS index files for the CISU and the CFICA part respectively. Distribution according to the SAP archiving objects is not possible as the complete CISU area is combined in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CISU and the complete CFICA area in the archiving object /PBS/CFICA.



3.2. Menu Edit

2 !	_ist	<u>E</u> dit	t <u>C</u> heck <u>G</u> e	nerate System <u>H</u>	<u>H</u> elp						
ø	8		Move main index -> long-term index Ctrl+Shift+F1				1	1 20 20 20 1 😹 🛛	• I 🕜 🖪		
7	dn	1	Mov <u>e</u> long-term	i index-≻ main index							
_	un	"	<u>U</u> ser group for	long-term index							
0		3	ndex Activation			Ctrl+Shift+F	5				
	_		Deactivate i <u>n</u> de	x		Ctrl+Shift+F	6				
-		vla j	<u>D</u> elete index			Ctrl+Shift+F	7				
		Index	created on	User	ADKs	tatus	PBS s	status	Oldest archive file	Recent archive file	Archiving object
		90745	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	23.12.2005	28.12.2005	ISU_PROFV
		90743	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	06.01.2005	29.07.2005	ISU_PRDOCH
		30742	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	06.01.2005	18.01.2006	ISU_PRDOCL
		90741	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	07.01.2005	07.02.2006	ISU_BILL
		90746	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	07.01.2005	29.07.2005	ISU_BILLZ
		90737	18.04.2006	DIAMANTIDIS	000	Complete	000	Main index active	01.02.2005	09.03.2006	ISU_BBP

Diagram 13:

You can activate and deactivate the PBS main and long-term archives via the menu options Edit / Index activation or Edit / Deactivate index.

This function can also be selected using the icons \blacksquare and \blacksquare for the selected archive.

The display transactions and the programming interfaces read both data from the active main archive as well as from all active long-term archives. Main and long-term archives can be activated or deactivated individually with the selection parameters by executing the transaction. An explicit activation of an archive is only required if you do not tick the checkbox "Create management indices" in the load run or you deactivate the archive in advance.

A table of contents is written in table /PBS/CISU_FILE when a main or a long-term archive is activated. Access to archived data is only possible if this directory is set up. Deactivation deletes entries from this table.

You can manage the access to main and long-term archives with the menu options Edit / Move main index -> long-term index or Edit / Move long-term index -> main index.



Move main index -> long-term index

During the load run only the main archive is ever updated. If the generation program runtimes are too long or if you intend to maintain the indices in different areas (for example separately according to years), you can convert the updated main archive into a long-term archive using the menu option Edit / Move main index -> long-term index. You reduce the merge runs of the main archive with this move. A long-term archive is characterized by the fact that it can no longer be changed. After having converted it a new main archive is started if the setup procedure is continued.

A main archive can also be converted into a long-term archive using the Icon rightarrow.

Move long-term index -> main index

Using the menu option Edit / Move long-term index -> main index you can reconvert each long-term archive into a main archive and thus include it again in the merge runs – also possible via the icon

Delete index

You can completely delete main and long-term indices using the menu option Edit / Delete index, which means that all dependent table contents and physical files are deleted. Active indices must be deactivated first before they can be deleted. Deleting PBS indices should be used less frequently as the reconstruction of the PBS indices requires a very long time for large archive volumes.

This function can also be called up using the icon



4. Archive Utilities

4.1. Reading the PBS Archive

Archiving Tool: /PBS/CISU_SCAN

The Archiving tool, which you can call up via menu Check / Archivtool or in transaction /PBS/CISU_SCAN, or via program /PBS/CISU_SCAN, shows the contents of the *PBS archive add on CISU* in a technical view. In addition, the system also displays further information on archive setup.

This functionality you can also reach using the icon

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	L	ist	<u>E</u> dit	<u>C</u> heck	<u>G</u> ener	rate	System	<u>H</u> elp					
(0	Е		Log			Ctr	1+F4	۰ ف	😣 I 🖴 A) 🔂 (2002	<mark>※</mark>
	٨	(m	inief	<u>A</u> rch	iving to	ol	Ctr	1+F5	64	ain indic	00		
1			məc	<u>I</u> nde:	x Overv	iew	Ctr	1+F6	110		63		
[6			Sing	l <u>e</u> acce	ss	Ctr	1+F7	3	9			
ſ	_	М	ain ind	Ra <u>n</u> li ces	ge acce Lyner	988 111 111 11	Ctr	1+F8					
		lr	ndex	created	on U	ser		AD	Kst	atus	PBS s	tatus	
		Θ	0745	18.04.20	06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	
		0	0743	18.04.20	06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	
		Ö	0742	18.04.20	06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	
		0	0741	18.04.20)06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	
		0	0740	18.04.20	06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	
		0	0737	18.04.20	06 DI	IAMAN	ITIDIS	00	×	Complete	000	Main index active	

Diagram 14:

The Archiving tool offers information, for each index number, on:

- Index list
- Job logs
- Run overview



which are described below.

Index List

도 <u>P</u> rogram <u>E</u> dit <u>G</u> oto S <u>y</u> stem <u>H</u> elp	,
] C C 🛠 💄 H H H H H H H H A H H
Display contents PBS arch	ive add on CISU
\bigcirc	
IndexNumber	10001 🖅 Arch.
Index list	•
Job logs	\bigcirc
Run overview	\bigcirc
Number cluster	200
Start at key	

The index list for the index concerned appears here, depending on the selected index number (10001 in this example).

⊡ System <u>H</u> elp							
Image: A state of the state	⊴ 📙 😋	😣 😵 I 🖨 🛗 🛗 🖏	12 🕰 🗶 🕱 🖉 🖓 📑				
Display contents PBS archive add on CISU							
Index	Seq.No.	Arch. file	Offset				
001000001033	000001	000617-001/PBS/CISU	6.612				
001000002061	000001	000617-001/PBS/CISU	17.532				
00100003086	000001	000617-001/PBS/CISU	28.436				
001000011742	000001	000617-001/PBS/CISU	39.302				
001000027017	000001	000617-001/PBS/CISU	50.417				
001000033785	000001	000617-001/PBS/CISU	62.068				
001000049071	000001	000617-001/PBS/CISU	73.574				
001000063997	000001	000617-001/PBS/CISU	85.181				
001000082232	000001	000617-001/PBS/CISU	96.711				
001000101911	000001	000617-001/PBS/CISU	108.414				
001000122362	000001	000617-001/PBS/CISU	120.012				
001000129820	000001	000617-001/PBS/CISU	131.720				
005000000005	000001	000617-001/PBS/CISU	143.195				
Total no. index tables			0				

Diagram 15: Indices of the Archiving Object Billing Document Headers (ISU_BILL)



The index in the left column indicates the highest index of this group.

In our example, these are the billing document numbers. You can display the list of all the indices in this group by clicking on the entries.

C			
System <u>H</u> elp			
Ø	🗎 (4 📙 😋 🚱 🚱 🗧) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	🗘 🕄 🔀 🛃
Display contents P	BS archive add on Cl	รบ	
IndexNumber 10001	Arch.Key	Offset	
001000000001	000274-001ISU BILL	22.598	1
00100000002	000103-001ISU BILL	22.598	2
00100000003	000138-001ISU BILL	22.598	3
00100000004	000138-001ISU_BILL	23.023	4
00100000005	000138-001ISU_BILL	23.447	5
00100000006	000138-001ISU_BILL	23.917	6
00100000007	000544-001ISU_BILL	22.598	7
00100000009	000544-001ISU_BILL	23.052	8
00100000010	000544-001ISU_BILL	23.506	9
001000000011	000544-001ISU_BILL	23.962	10
001000000012	000544-001ISU_BILL	24.419	11
00100000013	000544-001ISU_BILL	24.875	12
00100000014	000544-001ISU_BILL	25.303	13
00100000015	000544-001ISU_BILL	25.740	14
00100000016	000544-001ISU_BILL	26.174	15
00100000017	000544-001ISU_BILL	26.613	16
00100000018	000544-001ISU_BILL	27.067	17
00100000019	000544-001ISU_BILL	27.520	18
00100000020	000544-001ISU_BILL	27.974	19
00100000021	000544-001ISU_BILL	28.426	20

Diagram 16: List of Document Numbers

Click on an index to reach the next display level. Here, the system displays a list of all the tables that contain information on the index.

L⊑∕ S <u>y</u> stem	Help
Ø	🗉 🔄 🔛 😋 🚱 😂 🛗 🎽 🏝 🏠 🔛 💭 🔛 💌 🖉 📳
Display	y contents PBS archive add on CISU
Table	Table short contents
ERCH ERCHC	10000100000020200001100016167320100174378460001817252003010 100001000000020001010000000172003061520030615 00
DBERCHV ETAXERCH	10000100000020 1 2003010120030512000000000000000000021E6-0 100001000000020EXTR_ARCH_2003_12 20030615

Diagram 17: List of Tables



Now select one of the tables by double-clicking on it to reach the last display level, which is the detailed view of the index with all the field information.

Job Logs

You can see information on the PBS index runs by selecting the radio button 'Job logs'.

Er en	
<u>P</u> rogram <u>E</u> dit <u>G</u> oto System <u>H</u> elp	
	C C C C (C 🖁 H 🗳 C O C
Display contents PBS arch	ive add on CISU
•	
IndexNumber	10001 Arch.
Index list	
Job logs	•
Run overview	O
Number cluster	200
Start at key	

Diagram 18: Job Logs per Index Number

The system first displays an overview of all PBS indexing runs.

Diagram 19: PBS Indexing Runs

⊡ S⊻	stem <u>H</u> elp			
0	ũ	4 🛛 😋	🙆 🚷 🖴 🌐 🍪 🏵) 🗘 🗘 🗶 🐹 🗾 🔞 📑
Dis	play contents PBS	archive a	dd on CISU	
Index	:	Seq.No.	Arch. file	Offset
00000	11	000001	000617-001/PBS/CISU	899.412
Total	no. index tables			Θ

Double-click on the run number to see a load log with information on the selected



SAP archive files, selections for the load run, a time statistic and the tables and indices concerned.

⊡ S <u>y</u> stem <u>H</u> elp	
8	🛯 🔍 📙 😋 😧 🖨 備 協 巻 竹 む む 🛒 🗾 1 😗 📑
Display conter	nts PBS archive add on CISU
Loading log for run	n: 000002
This is run number	900002
Objects for select	tion screen 1000
OBJECT	ISU_PRDOCL
selected for delet selected SAP archi	ive files: 20ISU_PRDOCL000667000667-001ISU_PRDOCL
LOESCH ANZ_DSN	0000
ABAR_AUT AUTOMAT	19000101
ABAR_MAN MANUELL	20051201 X
ALL_BEL NUR BEL	X
ANZ_VON	1
X_MRG	X 333333
X_NEW	000618
P_INDEX	X
 Delimitations	
ABAR_AUT P 19000 ABAR_MAN P 20051 ALL_BEL P X ANZ_BIS P 99995 ANZ_DSN P 0000 ANZ_VON P 1	3161 1261 399
ARCHLIST S ISU_F AUTOMAT P	PRDOCL000667000667-001ISU_PRDOCL
HANDLE P 0	18
H_LIST S LOESCH P	
LOESLIST S MANUELL P X	
NUR_BEL P OBJECT P ISU_F	PRDOCL
P_INDEX P X P NOINP P X	
R3_VBART P X MR6 P X	
X_NEW P	

Diagram 20: PBS Load Log



Run Overview

You can see information on the PBS indexing run jobs by selecting the radio button 'Run overview'.

⊡ ProgramEditGoto_SystemHe	lp
	L L L L L L L L L L L L L L L L L L L
Display contents PBS arc	hive add on CISU
\odot	
IndexNumber	10001 Arch.
Index list	<u> </u>
Job logs	
Run overview	0
Number cluster	200
Start at key	

Diagram 21: PBS Run Overview

The system displays a list of all runs for the selected index number.

C 9w	tom Heln
Dis	play contents PBS archive add on CISU
Runs	realized up to now:
00061	7 000544-003ISU_BILL 23.11.2005 000001
00061	7 000544-002ISU_BILL 23.11.2005 000001
00061	7 000544-001ISU_BILL 23.11.2005 000001
00001	7 000454-001150_BILL 23.11.2005 000001 7 000296-0011511 BILL 23.11.2005 000001
00061	7 000274-001ISU_BILL 23.11.2005 000001
00061	7 000138-001ISU_BILL 23.11.2005 000001
00061	7 000103-001ISU_BILL 23.11.2005 000001





Index Overview: /PBS/CISU_INDEX_SCAN

The menu item *Index Overview* offers an overview of all indices of the individual archiving objects. You can also call up this overview in transaction */PBS/CISU_INDEX_SCAN* or in SE38, program */PBS/CISU_INDEX_SCAN*.



All the archiving objects adapted by PBS, together with their indices, are displayed sorted by index number.



도 <u>E</u> d	it <u>G</u> oto	System <u>H</u> elp	
0		Ĩ	1 4 📙 (😋 🛞 🖨 🎁 🎇 🎝 名 1
Ind	ex Ove	rview	
	61		
ISU	BILL	IS-U archiv	ing: billing document header
Ð	10001	ISU_BILL	ERCH-BELNR
⊕	10002	ISU_BILL	ERCH-VERTRAG
•	10003	ISU_BILL	ERCH-GPARTNER
⊕	10004	ISU_BILL	ERCH-VKONT
•	10005	ISU_BILL	ERCH-ERDAT
⊕	10006	ISU_BILL	ERCH-BELNR
Ð	11001	ISU_BILL	ERCHC-OPBEL
ISU	_BILLZ	IS-U Archivi	ing: Billing line item
Ð	20001	ISU_BILLZ	DBERCHZ-BELNR
ISU	_PRDOCH	IS-U Archivi	ing: Print Docmt Header
Ð	30001	ISU_PRDOCH	ERDK-OPBEL
€	30003	ISU_PRDOCH	ERDK-PARTNER
⊕	30004	ISU_PRDOCH	ERDK - VKONT
⊕	30005	ISU_PRDOCH	ERDK-ERDAT
€	30006	ISU_PRDOCH	ERDK-BUDAT
⊕	31001	ISU_PRDOCH	ERDB - INVOPBEL
ISU	_PRDOCL	IS-U Archivi	ing: Print Document Line Item
Ð	40001	ISU_PRDOCL	DBERDZ-OPBEL

Diagram 23: PBS Index Overview



Navigate forwards to call up the detailed display of the selected index.

Test Program Single Access: /PBS/CISU_TSEL

This transaction offers direct single access to indices, and can be called up via the menu item *Utilities/Test Program Single Access* or in SE38, program /PBS/CISU_TSEL.



You can enter the index number and the key. You can select the relevant tables of the archiving object by pressing the button 'Proposal'.



 <u>P</u> rogram	<u>E</u> dit	<u>G</u> oto	System	<u>H</u> elp							
Ø			Ē	₫ [😋	<u>@</u>	📮	8	🏝	1002	1
Test sin	gle :	selec	tion								
G											
Index numbe	r				10001						
Key					00100	000000	1				
Table			proposal		ERCHO			->			

Diagram 24: Test Individual Selection

Multiple Selection for Table 6Single vals	
ERCH ERCHC ERCHO ERCHP DBERCHV ETAXERCH	
🕒 🖌 🍪 🛃 🖬 🚺 Multiple s	election 📭 🗶

Diagram 25: Tables of the Archiving Object Billing Document Headers

The system displays an overview of all tables in which this index is stored.



Diagram 26: Tables of the Archiving Object Billing Document Headers



Here too, you can forward navigate to the detailed display of the index in the respective table.

Test Program Interval: /PBS/CISU_TSRD

This transaction offers interval access to indices, and can be called via the menu item *Utilities/Test Program Interval* or in SE38, program /PBS/CISU_TSRD.



You can enter index number, key (from which the index starts) and the number to be displayed.

⊡ Program <u>E</u> dit <u>G</u> oto Sy	(stem	n <u>H</u> elp
Ø	Ē	4 📙 😋 🚱 😓 🖽 🖓
Test interval select	ion	
•		
Index number		10001
Val.		0100000001
Number		100
Read documents		

Diagram 27: Test Interval Selection



If 'Read documents' is not selected, an overview is displayed.

Diagram 28: Overview of Indices					
ē					
SĀ	stem <u>H</u> eip				
		🛯 🔍 📙 I 🕲 🚱 I 🖨 🛗 🛗 I			
Tes	st interval se	election			
23					
Test	interval selec	tion			
10001	ERCH-BELNR	00100000001			
10001	ERCH-BELNR	00100000002			
10001	ERCH-BELNR	00100000003			
10001	ERCH-BELNR	00100000004			
10001	ERCH-BELNR	00100000005			
10001	ERCH-BELNR	00100000006			
10001	ERCH-BELNR	00100000007			
10001	ERCH-BELNR	00100000009			
10001	ERCH-BELNR	00100000010			
10001	ERCH-BELNR	001000000011			
10001	ERCH-BELNR	00100000012			
10001	ERCH-BELNR	00100000013			
10001	ERCH-BELNK	00100000014			
10001	ERCH-BELNK	00100000015			
10001	ERCH-BELNK	00100000010			
10001	ERCH-DELNR	00100000017			
10001	ERCH-DELNR	00100000010			
10001	ERCH-BELNR	00100000019			
10001	ERCH-BELNR	00100000020			
10001	ERCH-BELNR	00100000021			
10001	ERCH-BELNR	00100000022			
10001	ERCH-BELNR	001000000024			
10001	ERCH-BELNR	00100000026			
10001	ERCH-BELNR	00100000027			
10001	ERCH-BELNR	00100000028			
10001	ERCH-BELNR	00100000029			
10001	ERCH-BELNR	00100000030			
10001	ERCH-BELNR	00100000031			
10001	ERCH-BELNR	00100000032			
10001	ERCH-BELNR	00100000033			

If 'Read documents' is selected, you branch to a detailed view, from which you can reach the detailed display of the tables (individual field display) using forward navigation.



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Test	t interval s	election	
Test i	nterval seled	ction	1
10001	ERCH-BELNR	00100000001	
ERCH		1000010000000120000110000851582010009281776000001481200205112003050620030525200305102003	1
ERCHC		10000100000001001010000000002003061520030615 0000000000000 X X	
DBERCH	IV	100001000000001 1 200205112003050600000000000000000021EG-0 KWH EG-UB-G EG-	
10001	ERCH-BELNR	00100000002	
ERCH		1000010000000220000110001061042010010915556000017832200205112003050620030525200305102003	
ERCHC		1000010000000200101000000012003061520030615 000000000000 X X	
DBERCH	V	100001000000002 1 200205112003050600000000000000000021EG-0 KWH EG-UB-G EG-	
10001	ERCH-BELNR	00100000003	
ERCH		1000010000000320000110000220372010009261186000001279200205112003050620030525200305102003	1
ERCHC		1000010000000300101000000022003061520030615 0000000000000 X X	
DBERCH	IV	10000100000003 1 2002051120030506000000000000000000021EG-0 KWH EG-UB-LN EG-	
10001	ERCH-BELNR	00100000004	
ERCH		1000010000000420000110000869652010009420276000002858200205112003051220030525200305102003	
ERCHC		1000010000000400101000000032003061520030615 0000000000000 X X	
DBERCH	NA	10000100000004 1 2002051120030512000000000000000000000021EG-0 KWH EG-UB-LN EG-	

Diagram 29: Overview of Tables



4.2. Reading the SAP Archiving Run

The program /PBS/CISU_TADK reads the SAP archiving files. Select 'Print tables' to display all documents in all tables.

G Program Edit Goto System Help
Read ADK File
•
Archiving object ISU_PROFV 🕝
Select Archive 01.12.2005
OLoad automatically from 01.11.2005 max, number phys, files
maximum number of objects 20
✓ Print tables

Diagram 30: Selection Screen /PBS/CISU_TADK

Select one or more archiving runs:

🖻 Archive Management	: Choose Files to Read
ISU_PROFV IS-U Art	chiving: EDM Profile Values
🗕 🗖 🗖 🗖 🗖	28.12.2005
🗕 🗖 🗖 🗖 🗖	23.12.2005
🗕 🗖 🗖 🖬 🔁	14.12.2005
🗕 🗖 🗖 🗖 🗖	14.12.2005
🗕 🗖 🗖 🗖 🗖	14.12.2005
🗕 🗖 🗖 🗖 🗖	12.12.2005
🖵 🖽 🔲 🗖 000625	08.12.2005



The system displays detailed information on the selected ADK files. You can display details on the document by double-clicking on the table.

L⊆> ≺List> Edit G	oto System <u>H</u> elp
8	8 4 🔲 I 😋 🚱 😫 Là
Read ADK F	ile
Read ADK File	1
ArchiveKey 00062 Object ID 100110	
EPROFVAL30	100110000000000000000220031231##########
EPROFVAL30	10011000000000000000720040101################################
EPROFVAL30	10011000000000000000720040102################################
EPROFVAL30	100110000000000000000720040103#################################
EPROFVAL30	10011000000000000000720040104################################
EPROFVAL30	10011000000000000000720040105###############L####################
EPROFVAL30	10011000000000000000720040106#################################
EPROFVAL30	100110000000000000000220040107#################################
EPROFVAL30	10011000000000000000720040108#################################
EPROFVAL30	1001100000000000000720040109#################################
EPROFVALSTAT	10011000000000000007200401082259591U01520031231230000 000
EPROFVERSHEAD	1001100000000000000007000002200312312300002004011022595920051208090044CET DIAMANTID
EPROFVERSHEAD	1001100000000000000000001200312312300002004011022595920051208085731CET DIAMANTID



5. Transactions of the PBS archive add on CISU

5.1. Tabular Overview

The transactions of the *PBS archive add on* are explained in detail in manual part C (User manual). This chapter only provides a general overview.

Transactions	Transactions	Description
Rel. 4.64	Rel. 6.0	
/PBS/CISU	/PBS/CISU	Area menu CISU
/PBS/PBS	/PBS/PBS	Call PBS menu
/PBS/EA40	/PBS/EA40	Display print documents
/PBS/EA60	/PBS/EA60	Reprint print documents
/PBS/EA22	/PBS/EA22	Display billing documents
/PBS/ES32	/PBS/ES32	Display Installation
	/PBS/EA55	Display rate category
/PBS/EA22B		Enhanced display billing documents
/PBS/EA18	/PBS/EA18	Display manual billing
/PBS/EA63	/PBS/EA63	Display BB plan
/PBS/ECVBP02	/PBS/ECVBP02	Customer data overview
	/PBS/EC52E	Display Move-In
	/PBS/EC57E	Display Move-Out
/PBS/EK63	/PBS/EA63PS	Display payment scheme
/PBS/EK94	/PBS/EK94	Display payment plan
/PBS/EL31	/PBS/EL31	Manu. monit.meter reading results
/PBS/BCT2	/PBS/BCT2	Business partner contacts
	/PBS/ESWTMON01	Display switch documents
	/PBS/INVMON	Bill receipt monitoring
	/PBS/EG43	Display Device Information Record
/PBS/EEDM02	/PBS/EEDM02	Profile values
	/PBS/EEDMSETTLDISP	Display settlement document
	/PBS/IS_IE03	Display equipment
	/PBS/IS_IQ03	Display material serial number
	/PBS/EWAORDER	Waste disposal orders
	/PBS/EROUTE	Routes
/PBS/DRBE_EXP	/PBS/DRBE_EXP	Extractor print documents
/PBS/ABBE_EXP	/PBS/ABBE_EXP	Extractor billing documents
	/PBS/TINV_EXP	Extractor incoming bills
/PBS/CISU_EXDB	/PBS/CISU_EXDB	Variable extractor print documents
/PBS/CISU_EXAB	/PBS/CISU_EXAB	Variable extractor billing documents
/PBS/CISU_EXAP	/PBS/CISU_EXAP	Variable extractor budg.billing plans
/PBS/CISU_EXAL	/PBS/CISU_EXAL	Variable extractor meter rea. docum.
/PBS/CISU_EXKK	/PBS/CISU_EXKK	Variable extractor contr. account doc.



6. **PBS Utilities**

6.1. Archive Access Tutorial

In transaction /PBS/UTIL_ACCESS_ARC, you can display and execute example programs of access to the PBS archive via the various indices.



Diagram 31: Menu Tree Structure Archive Access



The individual reports:

Access to print document lines:

/PBS/CISU_TSRD_DBL_E_BN (Single access/Index Print document numbers) /PBS/CISU_TSRD_DBL_I_BN (Interval access/Index Print document numbers)

Access to print document headers:

/PBS/CISU_TSRD_DBH_E_BN (Single access/Index Print document numbers)
/PBS/CISU_TSRD_DBH_I_BN (Interval access/Index Print document numbers)
/PBS/CISU_TSRD_DBH_E_GP (Single access/Index Business partner)
/PBS/CISU_TSRD_DBH_I_GP (Interval access/Index Business partner)
/PBS/CISU_TSRD_DBH_E_VK (Single access/Index Contract accounts)
/PBS/CISU_TSRD_DBH_I_VK (Interval access/Index Contract accounts)
/PBS/CISU_TSRD_DBH_E_ED (Single access/Index Creation date)
/PBS/CISU_TSRD_DBH_I_ED (Interval access/Index Creation date)
/PBS/CISU_TSRD_DBH_E_BD (Single access/Index Posting date)
/PBS/CISU_TSRD_DBH_I_BD (Interval access/Index Posting date)

Access to settlement document lines:

/PBS/CISU_TSRD_ABL_E_BN (Single access/Index Settlement document numbers) /PBS/CISU_TSRD_ABL_I_BN (Interval access/Index Settlement document numbers)

Access to settlement document headers:

/PBS/CISU_TSRD_ABH_E_BN (Single access/Index Settlement document numbers)
/PBS/CISU_TSRD_ABH_I_BN (Interval access/Index Settlement document numbers)
/PBS/CISU_TSRD_ABH_E_GP (Single access/Index Business partner)
/PBS/CISU_TSRD_ABH_I_GP (Interval access/Index Business partner)
/PBS/CISU_TSRD_ABH_E_VK (Single access/Index Contract accounts)
/PBS/CISU_TSRD_ABH_I_VK (Interval access/Index Contract accounts)
/PBS/CISU_TSRD_ABH_E_V (Single access/Index Contracts)
/PBS/CISU_TSRD_ABH_E_V (Interval access/Index Contracts)
/PBS/CISU_TSRD_ABH_E_V (Interval access/Index Contracts)
/PBS/CISU_TSRD_ABH_E_V (Interval access/Index Contracts)
/PBS/CISU_TSRD_ABH_I_V (Interval access/Index Contracts)
/PBS/CISU_TSRD_ABH_I_V (Interval access/Index Contracts)
/PBS/CISU_TSRD_ABH_I_E_ED (Single access/Index Creation date)
/PBS/CISU_TSRD_ABH_I_ED (Interval access/Index Creation date)

Access to budget billing plans:

/PBS/CISU_TSRD_AP_E_AN (Single access/Index Budget billing plan numbers) /PBS/CISU_TSRD_AP_I_AN (Interval access/Index Budget billing plan numbers) /PBS/CISU_TSRD_AP_E_GP (Single access/Index Business partner) /PBS/CISU_TSRD_AP_I_GP (Interval access/Index Business partner) /PBS/CISU_TSRD_AP_E_VK (Single access/Index Contract accounts) /PBS/CISU_TSRD_AP_I_VK (Interval access/Index Contract accounts) /PBS/CISU_TSRD_AP_E_V (Single access/Index Contracts) /PBS/CISU_TSRD_AP_E_V (Interval access/Index Contracts)



Single access print documents via print document number:

Report /PBS/CISU_TSRD_DBH_E_BN

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Single access Prin	t document numbers
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Document number	
☑ ■ Restrict value range (1)	
PBS: General Selection	Non-Reversed Documents FI/CA Documentnumber
Print document no.	
Business partner	
Contract Account	
Posting date	
Reversal Doc. No.	
Document simulated	
Not released	
Collective bill acct	
Creation reason	
Official doc. no.	
1=db+a 2=db 3=a 📃	1
Maximum no. of hits	500
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Diagram 32: Single Access Print Document Numbers with PBS F4 Help

Enter an archived print document number to display all tables in which this document number exists.



🔄 List Edi	t Goto System Help				
Ø	I I I I I I I I I I I I I I I I I I I	2	•		
Single a	access Print document numbers				
Single acc	ess Print document numbers				
DBERDU	1000100000022600000601########x`#@###5KWH#################################				
DBERDU	1000100000022600000501########x`#@###5KWH###################				
ERDB	10001000000226002000700000650000000B				
ERDB	100010000002260010007000006490000000A				
ERDB	10001000000226003000700000651000000UFKKK0000700000651				
ERDK	10001000000226200306302003071620030716###2003063020030630	χ	ХХ	X ### #	#\EUR

Diagram 33: Table View

Double-click on a line to display details of the document in the table concerned.

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Tal	ble DE	BERD	U									

Diagram 34: Detailed Display

MA	NDT	С	000003	100	Client
0P	BEL	С	000012	10000000226	Contract Account Document Number
BE	LZEILE	Ν	000006	000006	Billing line item for billing documents
UM	WLFDNR	Ν	000002	01	Consecutive number of conversion
. I	NCLUDE		000000	01	Consecutive number of conversion
UM	WFAKT	Ρ	000031	10,87860864000000	Conversion Factor
UM	WGRUND	С	000001	5	Conversion reason
MA	SS	С	000003	K₩H	Unit of Measurement
٧_	UMWMENGE	Ρ	000017	2.959	Places before decimal point in conversion quantity
N_	UMWMENGE	Ρ	000014	0,0000000000000	Places after decimal point in conversion quantity
19-	ONWHENDE	Г	000014	0,00000000000000	Flaces after decimal point in conversion quantity



Interval Access of Print Documents Via Business Partner:

Report /PBS/CISU_TSRD_DBH_I_GP

⊡ Program <u>E</u> dit_ <u>G</u> oto_System	<u>H</u> elp
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Interval access Busine	ss partner
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Business partner	- to 🕈

Diagram 35: Interval Access of Print Document Numbers via Business Partners

Enter business partner number from/to to display a list of all archived print documents for this business partner in the respective tables.



⊡≓ List <u>E</u> d	iit <u>G</u> oto System <u>H</u> elp								
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Interval access Business partner									
Interval a	access Business partner								
DBERDU	1000100000293800000501########%#####5KWH###############################								
DBERDU	1000100000293800000601############\$KWH########################								
ERDB	100010000029380010007000083180000000A								
ERDB									
ERUK	100010000002938200401082004012420040124##2004010820040108 X XX X###### \EU	ĸ							
DBERDU	10001000023300001001###########U####3NWH################################								
DBERDU									
DBERDU	10001000002339000001201########EU###5KWH#################################								
ERDB	10001000002939001000700008320000000A								
ERDB	10001000002939002000700008321000000B								
ERDK	100010000002939200401082004012420040124###2004010820040108 X XX X####F#EU	R							
DBERDU	10001000000782900000101##############################								
DBERDU	1000100000782900000201###############EKVH#####################								
ERDO	1000100000078290001 SA5 00000000 ####### 99 X								
ERDB	1000100000078290010007000223350000000A								
ERDK	100010000007829200405172004060220040602###2004051720040517X030000003205X XXX X####&!#EU	R							
DBERDU	10001000000783000000101#############################								
DBERDU	10001000000783000000201##############################								
ERDU	1000100000078300001 SA5 0000000 ####### 99 X								
ERUB	1000100000078300010007000223300000000A	n							
ERUN	1000100000073302004051/2004000220040002###2004051/2004051/ X XXX X####!#~E0	r.							
ERDB	100011000000000000000000000000000000000								
ERDB	10001100000000000000004074000000000								
FRDB	10001100000000004004400497400000072								
ERDB	10001100000000005000400049740000006P								
ERDB	10001100000000000000400049740000005P								
ERDB	100011000000000070004000497400000004P								
ERDB	1000110000000008000400049740000003P								
ERDB	10001100000000000004000497400000002P								
ERDB	100011000000000100004000497400000001P								
ERDB	10001100000000110004000497400000012P								
ERDB	1000110000000012000497400000011P								
ERDB									
ERDK	-100011000000000000000305302003050320030503###2003051820030518 X X #######EU	R							

Diagram 36: Table View

You can navigate to the detailed display by double-clicking on the entry.



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Table ERDO										
	_									
MANDT	C	000003	100		Client					
OPBEL	С	000012	1000	0007829	Number of print document					
OUTCNSO	Ν	000004	0001		Consecutive number of outsorting					
. INCLUDE		000000	0001		Consecutive number of outsorting					
VALIDAT_IN	С	000010			Name of invoicing validation					
MANOUTS_IN	С	000008	SA5		Reason for manual outsorting in invoicing					
FREI_AM	D	000008	00.0	0.0000	Document Release Date					
FREI_VON	С	000012			Name of user who released the document					
DEVIATION	Ρ	000013	0,00		Deviation					
SIMULATION	С	000002			Indicator: billing simulation					
OUTCOUNT	Ν	000002	99		Number of manual outsortings to be carried out yet					
OUTSORT_IN	С	000001			Documents outsorted in invoicing					
OUTSORT_PR	С	000001	Х		Documents Outsorted in Bill Printing					
BGRD_RELEASE	С	000001			Background release of document					

Diagram 37: Detailed Display

6.2. PBS Conversion Tool

If you use own reports which also access archived data, PBS has developed a utility called the *Conversion Tool*. This tool searches for the select commands in an ABAP/4 program and adapts them for the archive accesses using PBS function modules. You can find more information in the manual on the *Conversion Tool*.

6.3. PBS Archive Browser

The transaction /PBS/SE16 is available in the Archive Browser. Like in the standard transaction SE16, you can display any table, however, the PBS transaction also reads the archived data in these tables. You can find more information in the manual on the *Archive Browser*.

