



# **PBS archive add on CPS**

Project Systems

**Manual Part C**

**- User Manual -**

Compatible with

SAP R/3 4.0

SAP R/3 4.6

SAP R/3 Enterprise

v

**SAP**<sup>®</sup> Certified  
Powered by SAP NetWeaver<sup>®</sup>

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# Introduction to the PBS ILM Concept

## 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<sup>®</sup>

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 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, 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 manual on the display transaction and application programs was written to support you when using the PBS archive add on CPS. Please see the administration manual (part B) regarding construction and administration of the PBS archive add on CPS.

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
- Part D: Migration Support R/2 => R/3 (if available)

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**:

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## Release Compatibility

The **PBS archive add on CPS** discussed in this manual runs with the basis programs of SAP AG, 69190 Walldorf/Baden, Germany, system R/3, **releases 4.0B to 4.7 (Enterprise), correction levels a to z.**

# 2 Application Functions

## 2.1 Navigation in the PBS archive add on CPS up to 4.5x

PBS has integrated in its software a start menu which corresponds to the SAP standard menu S000 after having registered in the SAP system. The only difference is the additional function button "PBS archive add ons".

In order to use this menu, you only have to enter start menu "/PBS/PBS" for users in all 4.0 releases and "/PBS/PBS\_45" in release 4.5.

After pressing the button, you get to the main menu transaction for the PBS archive add ons, by which you can address the different modules in a comfortable way.

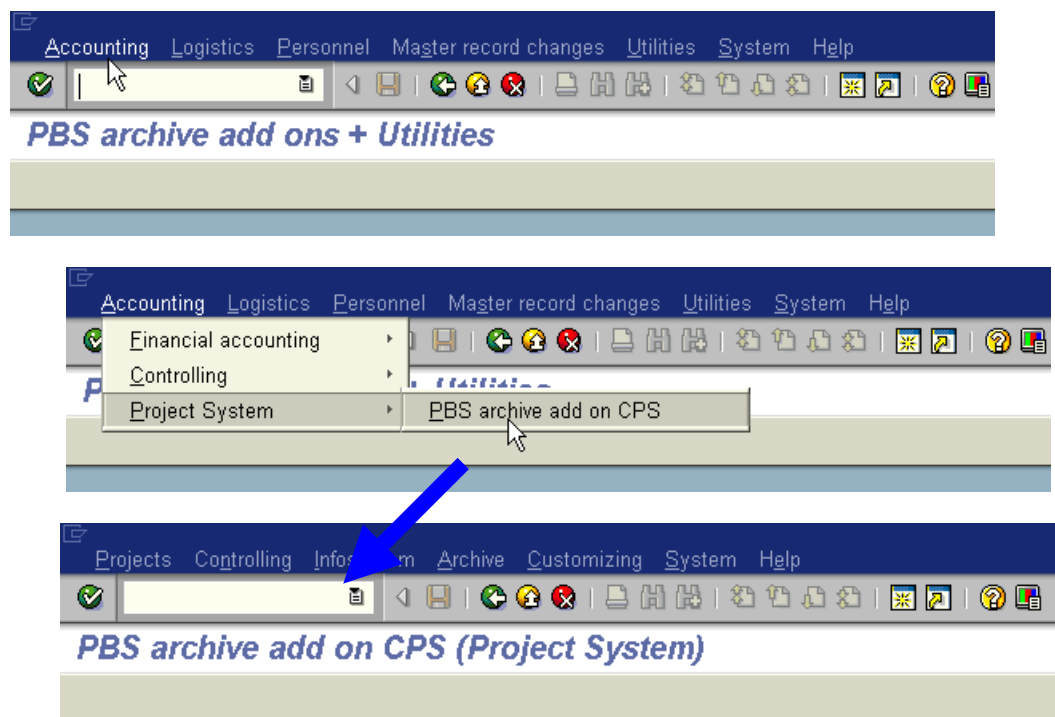
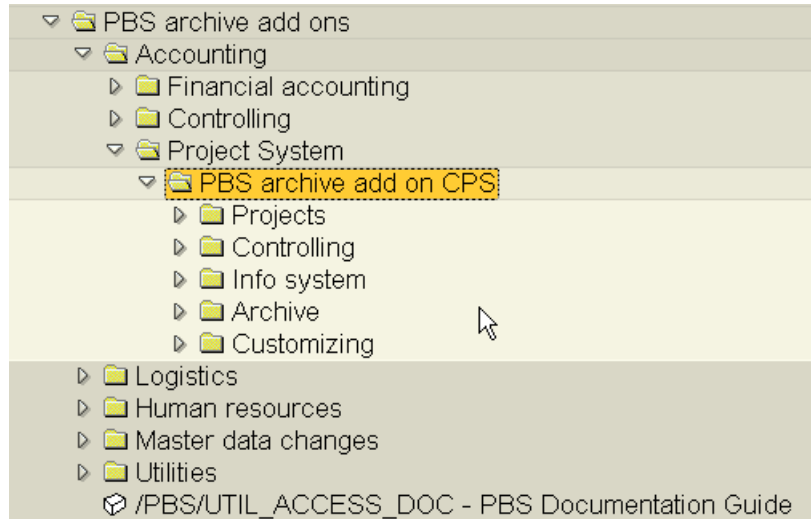


Diagram 1: Navigation via the PBS start menu

## 2.2 Navigation in the PBS archive add on CPS from 4.6

From the Easy Access menu you can easily navigate via the button 'User menu' through the functions of the PBS archive add on CPS. This is possible when your system administrator has added the role/activity group to your user profile.



**Diagram 2: Navigation via the SAP Easy Access**

## 2.3 Display Transactions

With the current version the following display transactions for the PBS archive add on CPS are available which read project data from the operative PS tables of the SAP system as well as from the PBS index. In general, these functions can also be called via the PBS navigation helps described above.

In principle, the display transactions correspond in their functionality to the corresponding SAP transactions. Therefore, special training for users is not necessary. You can find the detailed description of the transactions in the SAP documentation.

### 2.3.1 Display Transactions up to 4.6B

PBS	SAP	Transaktionserläuterung	4.0	4.5	4.6B
/PBS/CJ03	CJ03	Display Work Breakdown Structure	X	X	X
/PBS/CJ08	CJ08	Display Project Definition	X	X	X
/PBS/CJ13	CJ13	Display WBS Element	X	X	X
/PBS/CN23	CN23	Display Network	X	X	X
/PBS/CJ31	CJ31	Display Project Original Budget	X	X	X
/PBS/CJ41	CJ41	Display Project Plan	X	X	X
/PBS/CJ43	CJ43	Display Project Revenues	X	X	X
/PBS/CN41	CN41	Structure Overview	X	X	X
/PBS/CN42	CN42	Overview: Project Definitions	X	X	X
/PBS/CN43	CN43	Overview: WBS Elements	X	X	X
/PBS/CN46	CN46	Overview: Networks	-	X	-
/PBS/CCJI3	CJI3	Project Actual Cost Line Items	X	-	-

**Tab. 1: Display transactions of the PBS archive add on CPS up to release 4.6B**



## 2.3.2 Display Transactions from 4.6C

PBS	SAP	Transaction description	4.6C	4.7
/PBS/CJ03	CJ03	Display Work Breakdown Structure	X	X
/PBS/CJ08	CJ08	Display Project Definition	X	X
/PBS/CJ13	CJ13	Display WBS Element	X	X
/PBS/CN23	CN23	Display Network	X	X
/PBS/CJ31	CJ31	Display Project Original Budget	X	X
/PBS/CJ41	CJ41	Display Project Plan	X	X
/PBS/CJ43	CJ43	Display Project Revenues	X	X
/PBS/CN41	CN41	Structure Overview	X	X
/PBS/CN42N	CN42N	Overview: Project Definitions	X	X
/PBS/CN43N	CN43N	Overview: WBS Elements	X	X
/PBS/CN46N	CN46N	Overview: Networks	-	X
/PBS/CPS_CJI3	CJI3	Project Actual Cost Line Items	X	X
/PBS/CPS_CJI4	CJI4	Project Plan Cost Line Items	X	X
/PBS/CJI5	CJI5	Project Commitment Line Items	X	X
/PBS/CPSE	GR55	Execute Report Group	X	X

**Tab. 2: Display transactions of the PBS archive add on CPS from Release 4.6C**

## 2.4 Display Data Source

The display transaction dynpros in the PBS archive add on CPS are extended by the field "ARCH." (Archive) that displays information about the origin of the data.

An indicator (\*) in the field "Arch." displays that the data was determined from the archive. If the field is empty, the data is accessed to the SAP database.

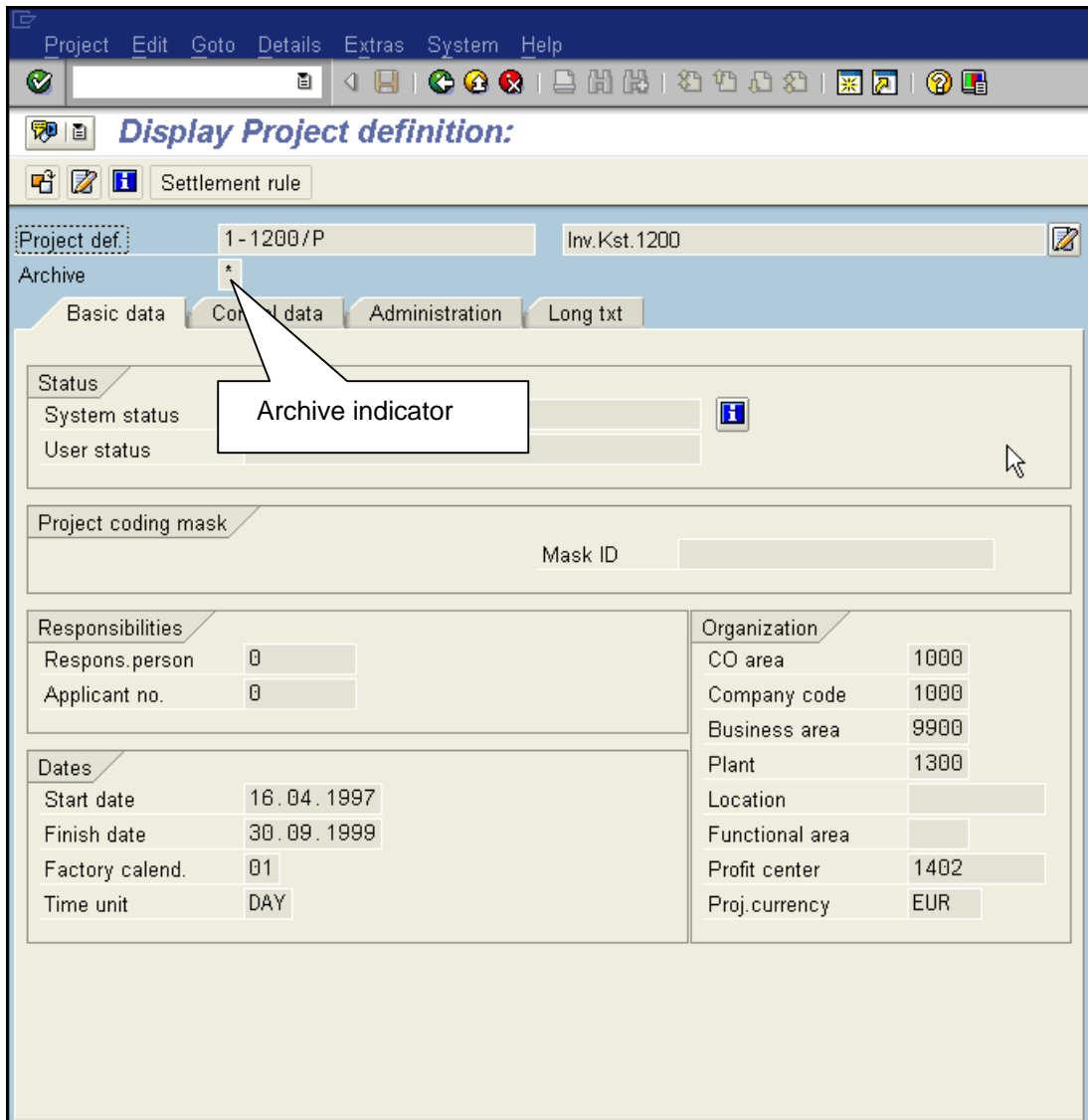


Diagram 3: Display data source

## 2.5 Selection of the Data Source for List Displays

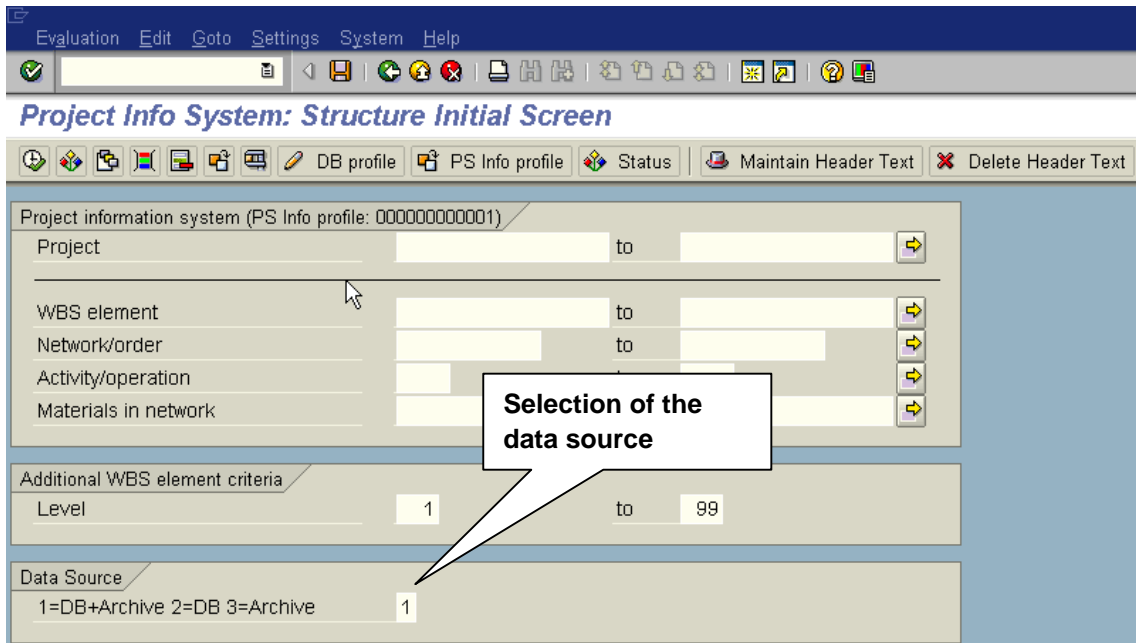
In the selection screen for list displays, the PBS display transactions differ from the SAP original by the parameter to select the data source for the read access

**1=DB+archive**

**2=DB**

**3=archive**

By entering the appropriate number 1, 2 or 3 project data is displayed either from the SAP database, the archive or from both data sources.



**Diagram 4: Selection screen of transaction /PBS/CN41**

If all delimitations have been entered correctly, a list with the requested projects is displayed. The list screen is constructed identically to the SAP transactions, but extended by a column with the archive indicator (A). With this indicator you can see whether the project displayed is in the PBS archive add on CPS or in the SAP database. If it is in the archive, the column contains a '\*'. Otherwise it is empty.

Project object	Project object	A
TEST	I/5555	
I/5555-0	I/5555-0	
I/5555-A	I/5555-A	
I/5555-A-B	I/5555-A-B	
Test 1	I/5555-A-C	
Test 2	I/5555-D	
Test 3	I/5555-F	
Test 4	I/5555-1	
TEST	902238	*
Vorgang 0010 Eigenbearbeitung	902238 0010	*
Element 1000	902238 0010 1000	*
Element 1100	902238 0010 1100	*
Vorgang 0020 Eigenbearbeitung	902238 0020	*
Element 2000	902238 0020 2000	*
Element 2100	902238 0020 2100	*
Element 2200	902238 0020 2200	*
Element 3000	902238 0020 3000	*
Vorgang 0040 Fremdbearbeitung	902238 0030	*
Vorgang 0040 Primärkosten	902238 0040	*
Test 5	I/5555-1-1	
Test 6	I/5555-2	
Test 7	I/5555-2-1	
Test 8	I/5555-2-2	

Diagram 5: List display

# 3 Display of archived Project Line Items

The transaction CJI3 displays project line items within the information system, which means documents from the Tables COBK and COEP.

Both tables can be archived via the SAP archiving objects CO\_ITEM and PS\_PROJECT.

The archiving object CO\_ITEM data is displayed using the PBS archive add on CCO. The archiving object PS\_PROJECT data is displayed using the PBS archive add on CPS.

We recommend using both products. All line items can be archived using CO\_ITEM before the project itself is archived. Otherwise all line items for a project are archived during the archiving with PS\_PROJECT.

An index for the documents that have been archived with PS\_PROJECT is created to correctly display the line items actual costs using the PBS archive add on CCO transaction.

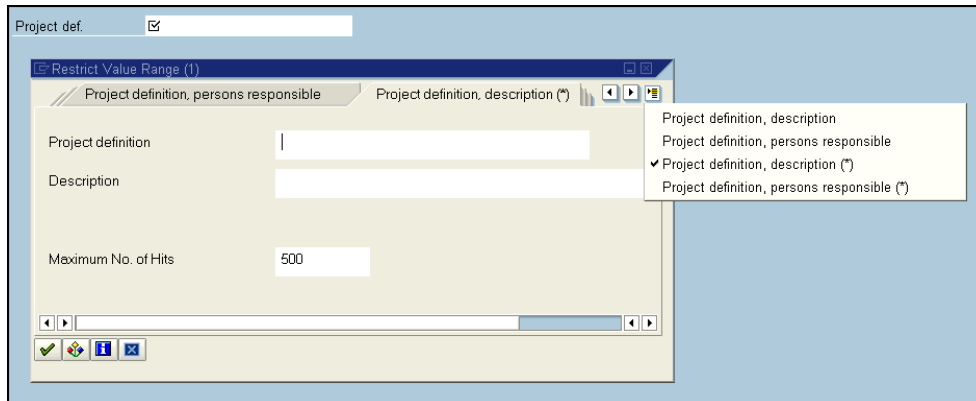
If the PBS archive add on CPS is used without CCO, the line items actual costs are displayed via the transaction /PBS/CPS\_CJI3. In this case the data is only read from the archiving object PS\_PROJECT.

If the PBS archive add on CCO and the PBS archive add on CPS are used, the PBS archive add on CCO software is leading. If you now call the transaction /PBS/CPS\_CJI3, a branch is made to the PBS archive add on CCO software in the background and the archived line items are determined via the CCO indices.

The same procedure also applies for the transactions /PBS/CJI4 and /PBS/CPS\_CJI4 to display projects line items planned costs, which means documents from Tables COBK and COEJ.

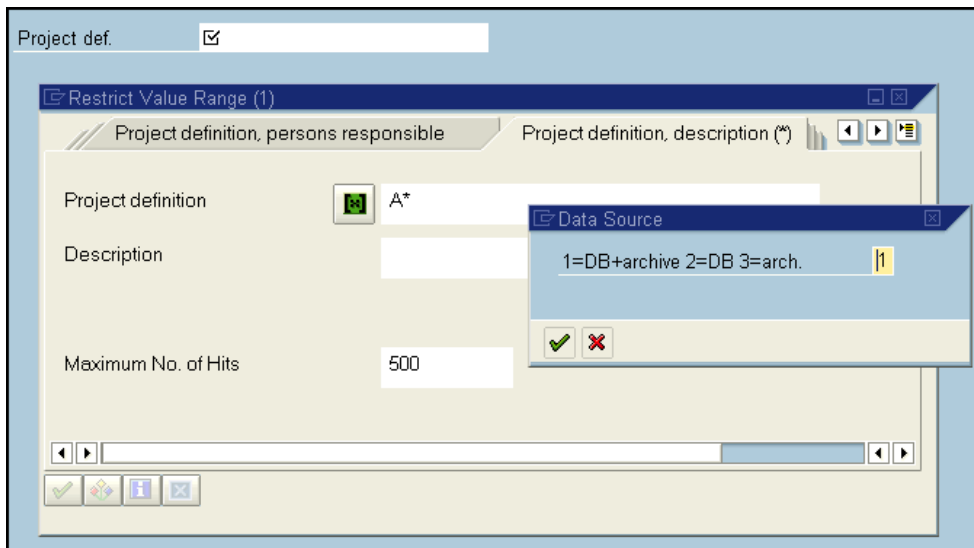
# 4 Search helps

From release 4.6C elementary search helps for the fields project definition, WBS element and network in the PBS archive add on CPS are available. In comparison to the original SAP search helps, the PBS search helps determine the default values not only from the database but also from the archive. They are marked with the indicator (\*). They are marked with the indicator (\*).



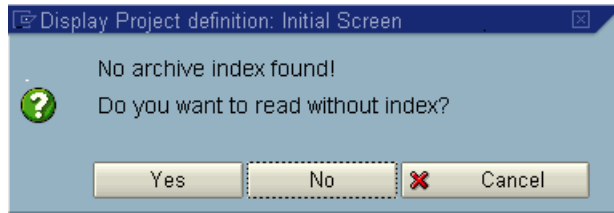
**Diagram 7: Search helps for the project definition, example with transaction /PBS/CJ08**

The selection criteria for the default list can be entered in the search help of the PBS archive add on CPS. As a last selection criterion the data source can be selected in a popup.



**Diagram 8: Popup for data source selection**

If the program does not find a PBS index to determine the default values from the archive with the selection criteria, a message is displayed with the proposal to read the SAP archive sequentially. However, this can take some time.



**Diagram 9: Note referring to the way to determine data**

Project Defini...	Description	Created ...
A	Reparatur Triebwerk	05.01.2000
A-00001	Reparatur Triebwerk	05.01.2000
A-00097	Reparatur Triebwerk	07.01.2000
A-00098	Reparatur Triebwerk	07.01.2000
A-06331	Engine Repair	25.05.2000
* A-00098	Reparatur Triebwerk	07.01.2000
* A-06331	Engine Repair	25.05.2000

**Diagram 10: Default list**

The alternative search paths are available to the user only if the collective search help is modified in the SAP standard (see administration manual).

As the collective search help was modified in the SAP standard, the alternative search path is always displayed as an option if the collective search help is chosen via the field. This also applies to the standard SAP transactions.

However, if the PBS search path is called for a standard SAP transaction, the system automatically selects the database as a data source.