

Product Specification PBS archive add on CPS

Transparent Project Controlling with SAP® Archive and Database

CPS Highlights

- Transparent project information, also originating from project elements such as orders, networks, and documents that have been archived or marked for deletion
- Settlement of actual costs between cost element report and line item report at WBS element level
- Display of archived WBS element numbers in documents
- Display of original documents belonging to archived project elements
- Archived confirmation documents can be displayed via the network operation

SAP projects generally contain complex data structures such as WBS elements, networks, orders and sales documents. Specific archiving objects are available for each of these data structures: the archiving object PS_PROJECT for project data and the archiving objects CO_ORDER, PM_ORDER, PP_ORDER and SD_VBAK for assigned orders. Archiving of the orders can only be performed using the archiving object for the corresponding order type. When doing this, the costs and revenues of the orders are summarized to WBS elements or network operations. Access to archived orders via projects is therefore not possible in the SAP standard system. However, business departments still want to be able to have detailed access to the order data after orders have been archived. This is enabled by the current enhancements to the PBS archive add on CPS.

Project Distortion Due to Archiving

A project structure can comprise one or more networks as well as different internal, service, and maintenance and/or production orders. After archiving has taken place, relationships within this structure can be lost. For example, costs and/or revenues belonging to an order that is marked for deletion are summarized to the assigned WBS element. This means that although they remain available in the Project Information system and in the period-end closing (for example, for results analysis or settlement), the reference to the order number is lost.

Project Reconstruction through Intelligent Indexing

You can use the PBS archive add on CPS to completely reconstruct the project structure in all its detail. The PBS archive add on CPS recreates the reference between summarized WBS elements for the archived networks and order numbers via its logical database /PBS/PSI. CPS determines not only operative data of the project system from database and PS_PROJECT archives, but also resident and archived data from internal, maintenance, and production orders and reconstructs these in the structure again. This means that even if archiving of the projects is not performed using PS_PROJECT, the use of the PBS archive add on CPS makes sense because the project reference to archived order data from CO_ORDER, PP_ORDER, PM_ORDER and SD_VBAK is recreated. It is possible to branch from the overview display of the project structure to the detail display of all structure elements, including to confirmations of network operations, to orders, and to sales documents. The PBS logical database /PBS/PSI is identical in its structure and function to the corresponding logical database PSJ belonging to SAP.

Technical Data

System Requirements SAP R/3 3.x, 4.x and SAP ERP 5.0/ 6.0.
In order to use the PBS archive add on CPS, SAP data archiving must have been performed correctly for the corresponding archiving objects specified below.

Interfaces There is an ABAP interface with direct and sequential accesses as well as accesses via the logical database /PBS/PSI. In addition, you receive our PBS Conversion Tool, which you can use to extend the ABAP SQL database accesses to include the PBS archive access.

Installation Installation is performed via SAP Transport Management. The PBS software is transferred via ftp to the SAP server and installed. Up to SAP R/3 4.6C, the transport program tp is used and from Release 4.7 the installation is performed using the transactions SAINT and SPAM.

Archiving Objects The PBS archive add on CPS currently supports the following archiving objects:

Archiving Objects	Description
PS_PROJECT	Project System: Operative structures
CO_ORDER	Internal orders for projects
PM_ORDER	Service and maintenance orders for projects
PP_ORDER	Production orders for projects
SD_VBAK	Sales documents for projects

Index Construction In the PBS archive add on CPS, secondary indices are constructed and stored for the projects and networks (archiving object PS_PROJECT) archived by SAP. This guarantees fast access to the archived projects and networks.
The data is stored in sequential files in the SAP file system, not in the SAP database. This reduces the load on the SAP system, as well as fast access to the archive data.
Furthermore, secondary indices are constructed for the orders assigned to the projects from the archiving objects CO_ORDER, PM_ORDER, PP_ORDER as well as for the sales documents assigned to the projects from the archiving object SD_VBAK. These indices are stored in a table in the database.

Runtime Index Construction The PBS indices have to be generated after each SAP archiving run. The newly generated indices are merged with the already existing indices. The runtime depends on the system performance and takes about the same amount of time as the archiving run.

Storage Volume The majority of the index data of the PBS archive add on CPS for PS_PROJECT data is located in the file system of the database server or of an SAP application server. The disk space requirement for the complete indices of the archived projects depends on their structure and size. A very small amount of administrative information data comprising a few bytes is stored in a table in the SAP database.
In order to minimize the performance effort for the structuring of projects, the index data for the other SAP archives must be stored in the SAP database. 170 bytes per information.

Integration The PBS archive add on CPS creates the linkage of project elements from the database and different SAP archives in a structure via the logical database /PBS/PSI. You can display details for the individual project elements using the corresponding PBS archive add on, as long as they have been indexed.

Reporting You have the possibility to extend SAP standard and customer-specific programs to include further archive accesses. Either the PBS Conversion Tool or the programming interface can be used to do this.

Response Times Response times depend on the storage system and the system configuration, but also on the complexity of the projects. In individual cases the access to the archived data can be performed about as fast as the access to data on the SAP database. However, it is recommended that complex requests are performed as background jobs.

Technical Data

Transactions

The following transactions are currently available for reading the PS_PROJECT data:

PBS Transaction	SAP Transaction	Description
/PBS/CJ20N	CJ20N	Project Builder
/PBS/CJ03	CJ03	Display Work Breakdown Structure
/PBS/CJ08	CJ08	Display Project Definition
/PBS/CJ13	CJ13	Display WBS Elements
/PBS/CN23	CN23	Display Network
/PBS/CJ31	CJ31	Display Project Original Budget
/PBS/CJ41	CJ41	Display Project Plan
/PBS/CJ43	CJ43	Display Project Revenues

The logical database /PBS/PSI processes the following transactions:

PBS Transaction	SAP Transaction	Description
/PBS/CN41	CN41	Structure Overview
/PBS/CN42N	CN42N	Display Project Definition
/PBS/CN43N	CN43N	Display WBS Element
/PBS/CN46N	CN46N	Overview: Networks
/PBS/CN47N	CN47N	Overview: Activities/Elements
/PBS/CN52N	CN52N	Overview: Components
/PBS/CN45N	CN45N	Overview: Orders
/PBS/CN55N	CN55N	Overview: Sales Document Items
/PBS/CN49N	CN49N	Overview: Relationships
/PBS/CN53N	CN53N	Overview: Milestones
/PBS/CN51N	CN51N	Overview: PRTs
/PBS/CN48N	CN48N	Overview: Confirmations
/PBS/CPS_CJIA	CJIA	Display Project Actual Payment Line Items
/PBS/CPS_CJI3	CJI3	Display Project Actual Cost Line Items
/PBS/CPS_CJI4	CJI4	Display Project Plan Cost Line Items
/PBS/CJI5	CJI5	Display Project Commitment Line Items
/PBS/CJE0	CJE0	Execute Hierarchy Report
/PBS/CPSE	GR55	Execute Report Group

Previous Knowledge

SAP experience is a prerequisite. As the PBS transactions are identical to the SAP standard transactions, no user training is necessary.

Delivery

The delivery consists of the software in German, English and French as well as a user manual in German and English.

Support

If you require support during the installation, please contact our hotline.

Maintenance

If you have a valid maintenance contract, you will receive further developments and updates. You can reach our hotline Monday through Friday from 8:00 am to 6:00 pm CET.

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