



Current Topic:

PBS Solutions in S/4HANA

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Management

Expert for SAP ILM and Data Management

Agenda

PBS archive add ons: current Topics and Outlook

Transition to S/4: system-technically and data-technically

Innovations on Data Archiving in S/4HANA

Integrated Data Access in ERP and S/4HANA

Update Data Extraction and GDPR

Summary

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nt3270-1.140 -- ihasp3 (147.204.123.5)
Network Edit Colors Fonts Options ItemType Help

Aendern mit U-Code Zentral      0 LUARM      MAWA M B5TYP X STATUS REVDLD

MATERIAL..... KAMERA-2          BUKRS 01          WERK 01
SP D KURZTEXT      Kamera exklusiv fuer SET-LU          NEUE SP _ AE-DT 06.05.93

PREISE U. BEWERTUNG IN LAGER-ME = ST      UND WARENRANG = DN

LF. MONAT./JAHR 01      97          VERDMMAT./JAHR 12      96
KONTENGROPPE. 01          INTER. VERMERK _
PREIS-STEUER. $          LIFO/POOL-NR. _
GLEITND.PREIS          80,00          PREISEINHEIT. 1
STANDARDPREIS          80,00          ABWERTUNGS-KZ
VORNR.-PREIS          0,00          AENDER.-DATUM 00.00.00
NEUER PREIS..          0,00          SUELTIG 00... 00.00.00
ZUK.-PLANPREIS          0,00          ZP 0000 LP 0000 UP 0000

GES.-BEW.BSTD.          99.695,000          WERT DAZU.... 7.975.600,00
GS. ZUG.LF.JHR          0,00          WERT DAZU.... 0,00
ZUG.-EX.LF.JHR          0,00          WERT DAZU.... 0,00
ABWEICH.MENGE          0,000          WERT DAZU.... 0,00
END-BSTD.VORAN          99.695,000          WERT DAZU.... 7.975.600,00

FCODE BU
OK PF: 3-Back 13-Buchen 14-Anzeigen Aenderungen      1 - 83206
NUML 024 000

```

Header:
 Company Code:
 GL Account:
 Status:
 Posting Date:
 Posting Time:
 Controlling Area:

Line Items (103) Standard

Status	Assignment Reference	Journal Entry	Journal Entry T.	Posting Date	Posting Key	Amount in C-Code	Yr Code	Closing Entry	Profit Center	Segment	Join Entry Item Text	Number of Lines
✓	GL Account 12000000 - Goods Received/Invoice Received					127.00 EUR						
✓	GL Account 12000000 - Total Payables/Related Expenses					124.00 EUR						
✓	GL Account 29000000 - Downward Split Credit Account					0.00 EUR						
✓	GL Account 38000000 - Inventory - Total Entry of Basic Material Balances					230.00 EUR						
✓	GL Account 40000000 - Revenue/Debit Entry					168.00 EUR						
✓	GL Account 50000000 - Consumption - Trading Goods					136.24 EUR						
✓	GL Account 60000000 - Vehicle Costs					103.00 EUR						
✓	GL Account 69000000 - Office Costs											
✓	00101010101	1700000000	KS	12.01.2016	00	500.00 EUR	VS		19810 - Product	1000A - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	550.00 EUR	VS		19810 - Product	1000A - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	1.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	22.03.2016	00	0.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	1.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	17.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	20.03.2016	00	10.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	80.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	20.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	01.01.2016	00	1.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	12.01.2016	00	1.000.00 EUR	VS		19810 - Product	1000C - Eigenr.		
✓	00101010101	1700000000	KS	11.01.2016	00	999.00 EUR	VS		19810 - Product	1000A - Eigenr.		
✓	00101010101	1700000000	KS	12.01.2016	00	999.00 EUR	VS		19810 - Product	1000A - Eigenr.		
✓	00101010101	1700000000	KS	12.01.2016	00	999.00 EUR	VS		19810 - Product	1000A - Eigenr.		
						239.945.00 EUR						

Applications come and go

- Archives remain!

Data Archiving lives on!

SAP Help Portal

[Browse by Product](#)
[SAP Le...](#)

[Home](#) > [SAP S/4HANA](#) > [Data Archiving \(CA-ARC\)](#)

Data Archiving (CA-ARC)

1809 FPS02 (May 2019)
English

This document

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Data Archiving (CA-ARC)

- > Data Archiving with Archive Development Kit (ADK)
 - Data Archiving in Controlling (CO)
- > Enterprise Controlling (EC)
- > Data Archiving in Financial Accounting (FI)
- > Financial Supply Chain Management (FSCM)
- > IM - Investment Management
- > Data Archiving in RE-FX
- > Logistics General (LO)
- > Logistics Execution (LE)
- > Data Archiving in Materials Management (MM)
 - Data Archiving in Quality Management (QM)
 - Data Archiving in Plant Maintenance and Customer Service (PM/CS)
 - Data Archiving in Production Planning and Control (PP)
- > Data Archiving in Order and Contract Management
- > Project System (PS)
- > Archiving or Destroying Collateral Management Data

Data Archiving (CA-ARC)

Data Archiving removes from the database application data that is no longer required, and places it in archive files that can be accessed and analyzed at a later date.

The cross-application archiving documentation is structured as follows:

- One **application-specific section** per component (for example, FI, TR, CO)
- One **introductory section**, that is identical for all components, and that can be called directly from the application-specific section

For information on related topics, refer to:

- Data Archiving - ADK
- [Content Management Service](#)

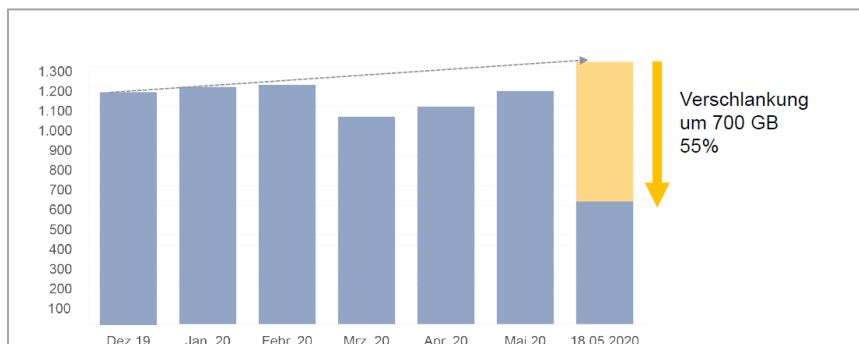
See also:

Data Archiving in SAP Web Application Server

<https://help.sap.com/viewer/0cc7ab3f01db4133a5d830dfd566abb6/1809.002/en-EN/9d4d97535deced23e10000000a174cb4.html>

Data Archiving – an essential Solution Module

Technically (Mass Data)

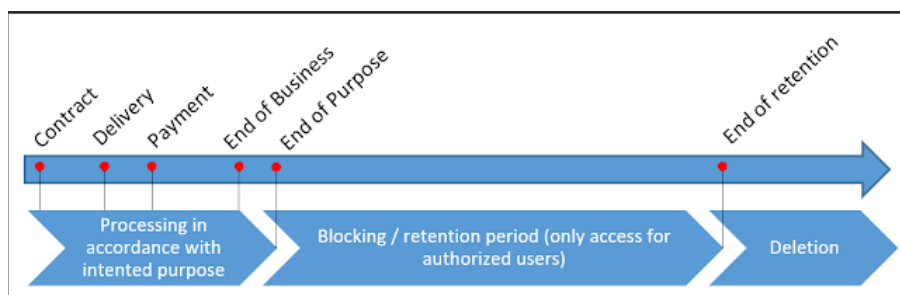


Fiscally (GoBD - German legal accounting standards)

New version of German legal accounting standards with letter from German Federal Ministry of Finance dated Nov. 28, 2019

→ Indirect/direct data access (Z1, Z2) + data extraction (Z3) further sharpened

Organizationally (GDPR)



S/4HANA – Availability PBS archive add ons

Home / Solutions / PBS archive add ons: Fast Access to Archive Data / Product Availability

PBS product availability

Availability by product: <input type="text"/>	Availability by release: <input type="text" value="S/4HANA 2021"/>	Availability by (archiving) object: <input type="text"/>
<ul style="list-style-type: none"> Archive Data Conversion Archive Data Review Database Analyzer PLUS GDPR Analyzer NAI IDOC Nearline Analytic Infrastructure PBS archive add on CAB PBS archive add on CCMD PBS archive add on CCO PBS archive add on CCOPA PBS archive add on CCU PBS archive add on CDART 	<ul style="list-style-type: none"> PBS archive add on CDVS PBS archive add on CFI PBS archive add on CHR PBS archive add on CML PBS archive add on CMM PBS archive add on CMT PBS archive add on COO PBS archive add on CPCA PBS archive add on CPCP PBS archive add on CPM PBS archive add on CPP PBS archive add on CPR 	<ul style="list-style-type: none"> PBS archive add on CPS PBS archive add on CQM PBS archive add on CRW PBS archive add on CSD PBS archive add on CSL PBS archive add on CUSTOM PBS archive add on CVMD PBS archive add on CWM SE16/SA38_PERSONAL

<https://www.pbs-software.com/en/products/pbs-archive-add-ons/product-availability.html>

S/4HANA – PBS archive add ons checked and certified by SAP SE



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the interface software for the product **PBS archive add ons 7.5** of the company **PBS Software GmbH** has been certified for deployment on SAP S/4HANA 2021 via the SAP integration scenario **ABAP Add-On Deployment for SAP S/4HANA**.

This certificate confirms the technical compliance of **PBS archive add ons 7.5** with SAP certification procedures.

The certification test is documented in report no. **19588** and expires on **November 23, 2024**.

SAP Test System: SAP S/4HANA 2021

The certification is listed on the SAP Certified Solutions Directory: sap.com/csd.

Certified Functions:

Assign Software Component and Namespace
Package Add-On using SAP Add-On Assembly Kit
Deploy using SAP Add-On Installation Tool (SAINT)
Integration with SAP S/4HANA
Technical Uninstallation Test
SAP Solution Manager Ready functionality
Compatible with SAP S/4HANA Cloud, private edition
Works with RISE with SAP

Christoph Claus

Walldorf, November 23, 2021

SAP® Certified
Integration with SAP S/4HANA®

THE BEST RUN 

SAP certification focuses on technical integration with SAP solutions. Vendor is responsible for the product itself, its error-free operation, and adherence to applicable laws.



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the product **PBS ContentLink 4.2** of the company **PBS Software GmbH** has been certified for integration with / deployment on SAP S/4HANA 2020 via the SAP integration scenario **S/4-BC-ILM 1.0**.

This certificate confirms the technical compliance of **PBS ContentLink 4.2** with SAP certification procedures.

The certification test is documented in report no. **16499** and expires on **February 18, 2024**

SAP Test System: SAP S/4HANA 2020

Certified Functions:

WebDAV Storage Interface, Server functionality
WebDAV Storage Interface LOAD Test performed

Holger Kunitz

Walldorf, February 18, 2021

SAP® Certified
Integration with SAP S/4HANA®

THE BEST RUN 

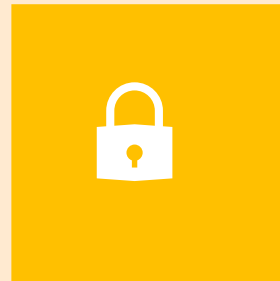
SAP certification focuses on technical integration with SAP solutions. Vendor is responsible for the product itself, its error-free operation, and adherence to applicable laws.

S/4HANA – PBS Core Competencies in 2022



PBS Migration S/4HANA

Migration preparation
management legacy data



PBS Compliance S/4HANA

GoBD - German legal accounting
standards, GDPR,
data extraction

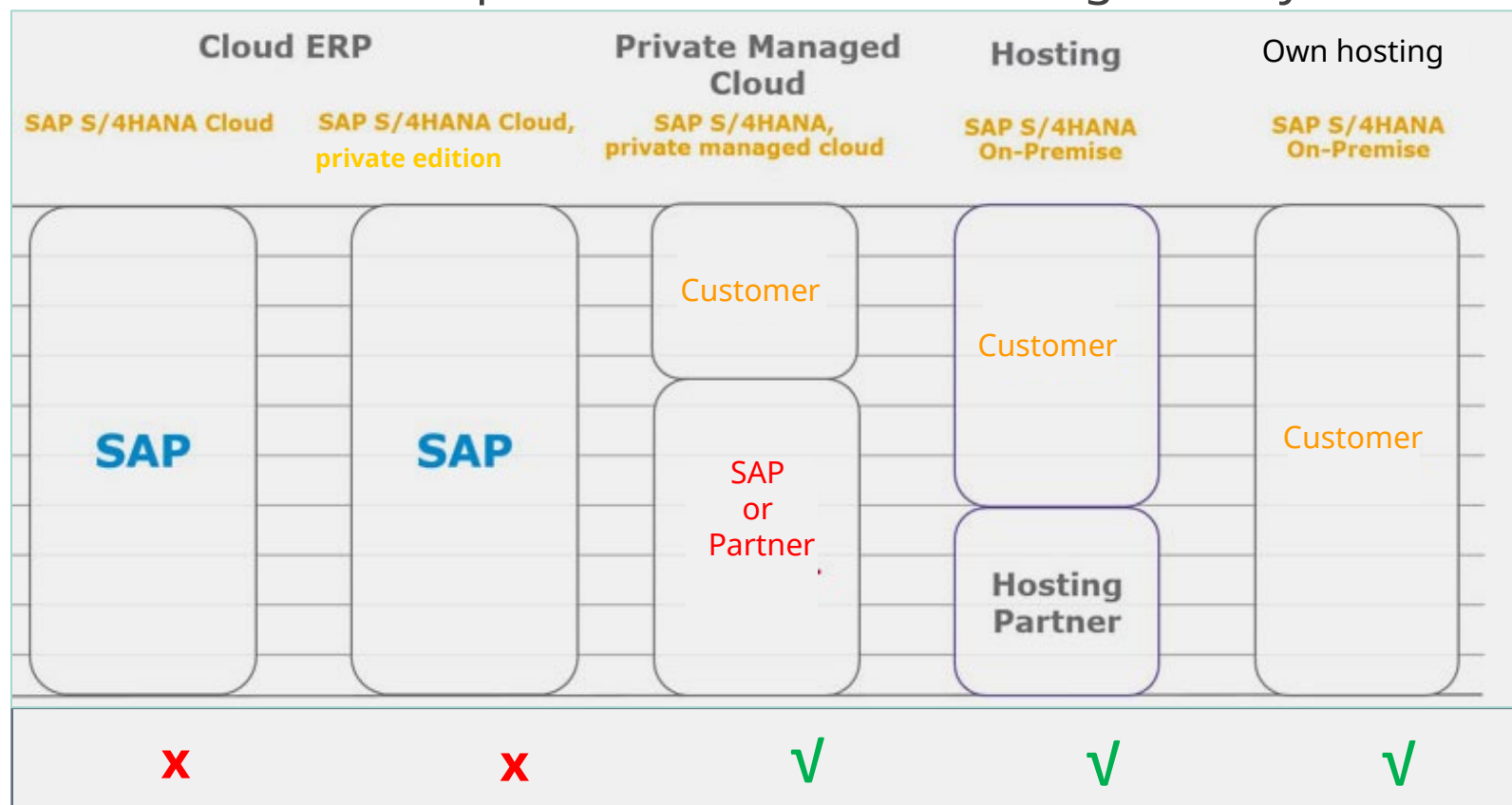


PBS Analytics S/4HANA

Integration of archive data
and complementary
database solutions

Deployment Options for S/4HANA

PBS archive add ons: can be run on-premise or in cloud. Exception: direct cloud offers of SAP SE - for this, partner solutions are not generally allowed



PBS archive add ons

Source: <https://innovabee.de/on-premise-aus-der-cloud-oder-doch-hybrid-die-bereitstellungsoptionen-von-sap-s-4hana-im-ueberblick/>

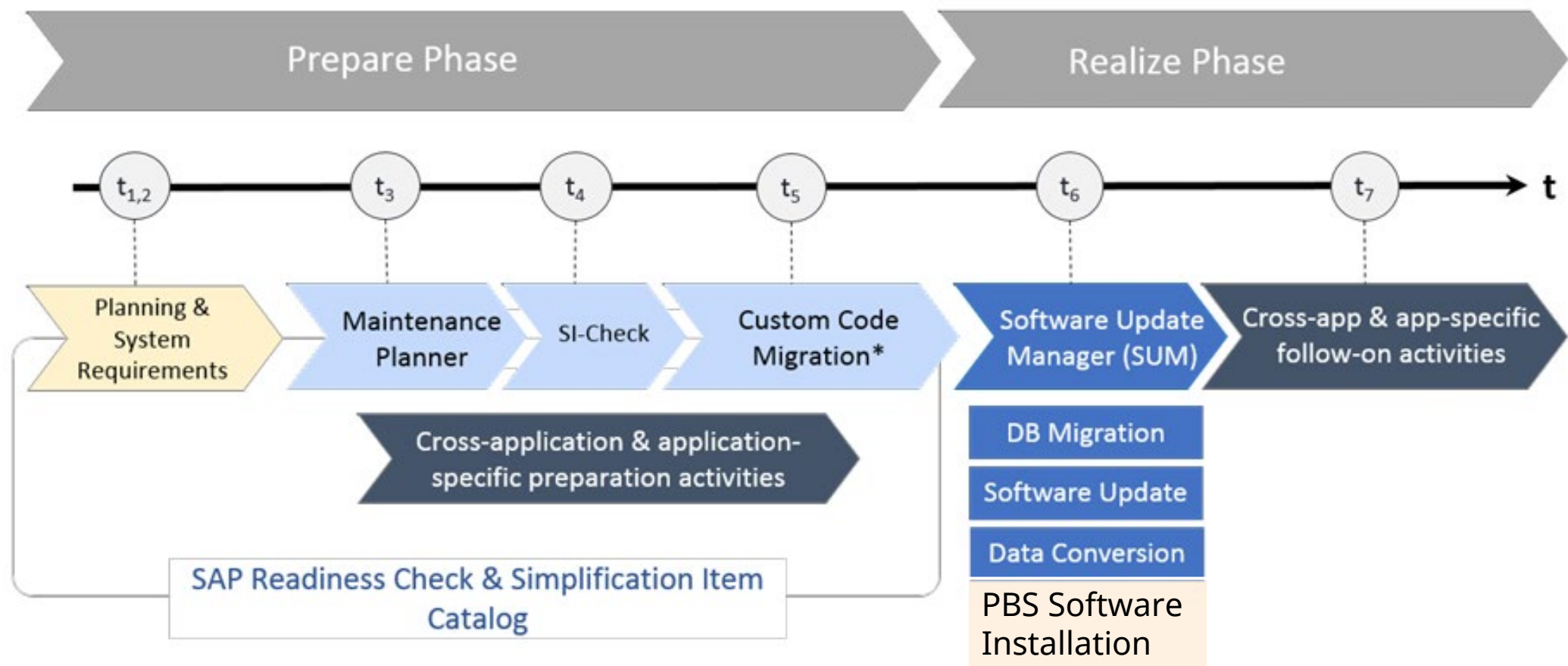
Deployment Options: Technical Details



	Aspect	S/4HANA Cloud	S/4HANA Cloud private edition	On-Prem/HEC/PMC
Infrastructure	License	Subscription	Subscription	BYOL (build your own license)
	Updates	Automatic. SAP.	<- Either ->	Complex, Manual
	Release Cycle	Quarterly	Semi Annual	Annual
	Cloud Service Provider	No Choice	Customer Choice	Customer Choice
	Performance	Influenced by overall system usage	Private, Tuning co-shared by SAP	Private, Tuning Owned by Customer
Implementation	Timeline	8-16 weeks (Phase 1)	~ 16 weeks (Phase 1)	TBD
	Implementation Strategy	Greenfield	Greenfield	Conversion or Greenfield
	Methodology	TDM for Multi Tenant Cloud	TDM for Single Tenant Cloud	TDM

Source: <https://blogs.sap.com/2020/07/09/difference-between-sap-s-4hana-any-premise-sap-s-4hana-cloud-essentials-and-sap-s-4hana-cloud-extended/>

S/4HANA – Conversion Process

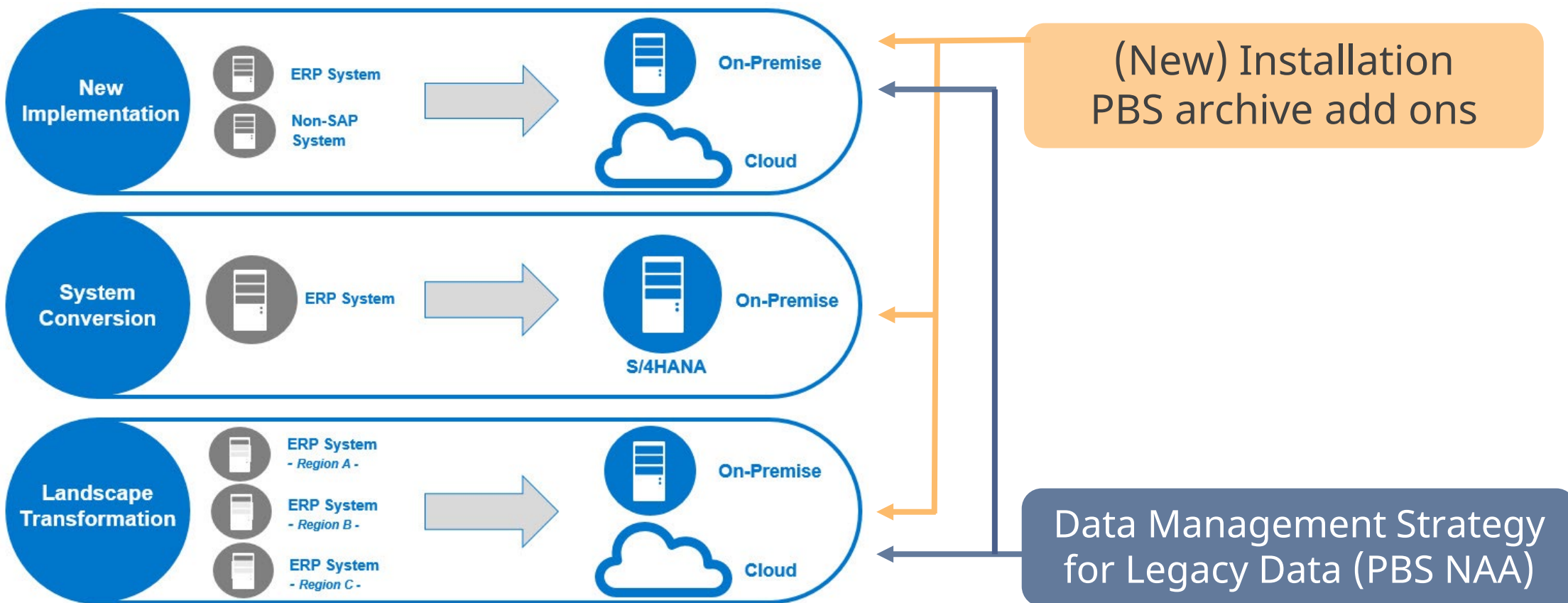


Source: <https://help.sap.com> → conversion guide/

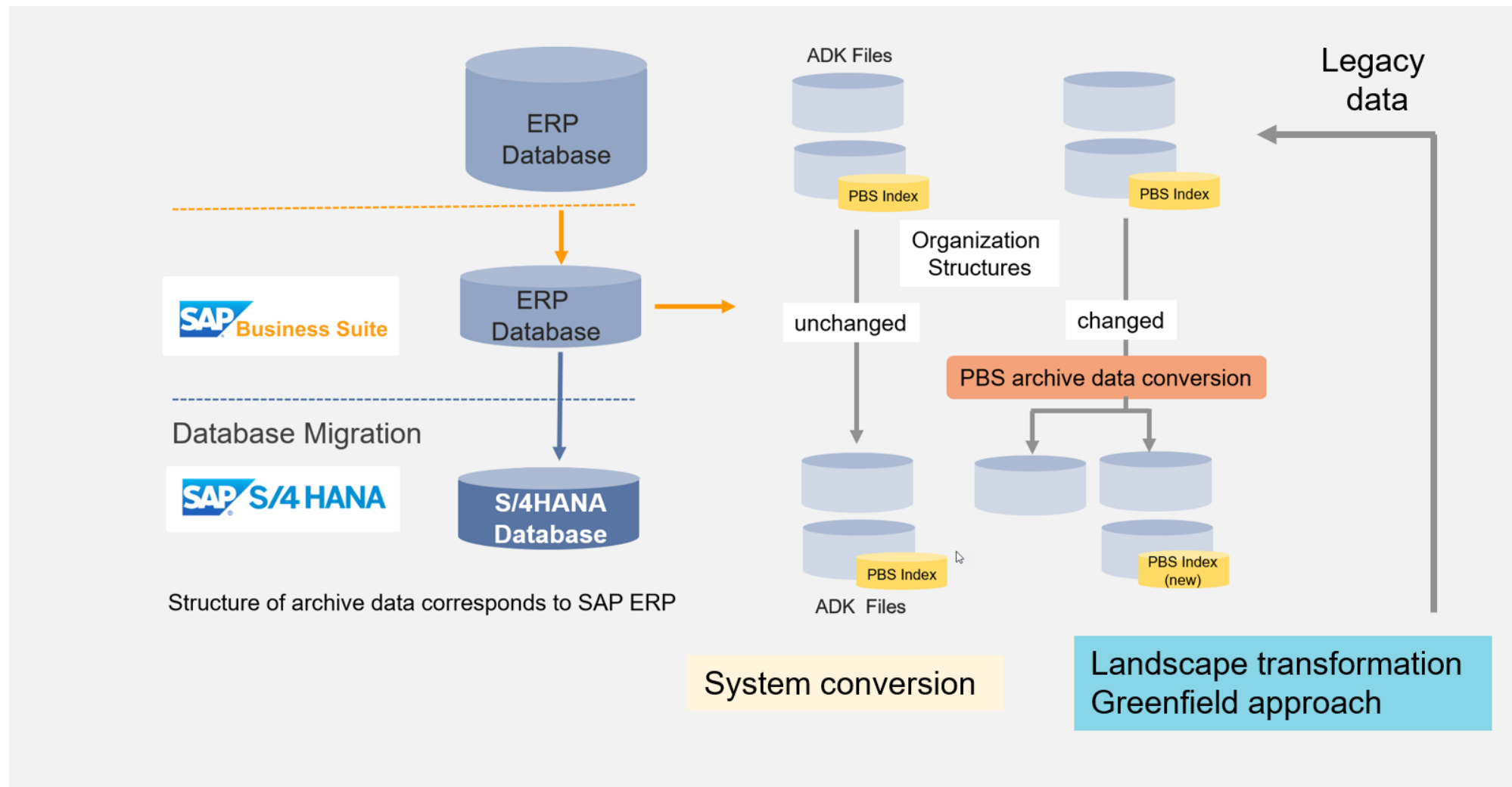
Best Practice PBS Software Installation

1. Request the Attribute Change Package (ACP package) via PBS Helpdesk and import it into the ERP system (existing customers)
Time: **before** SUM
2. Carry out and complete SUM phase for SAP standard upgrade
3. Installation of PBS packages via SAINT
Time: **after** SUM

Migration Options



Copy ERP Archive Data to S/4HANA



Data Archiving lives in S/4HANA ...

- Many common applications continue to stick to the traditional data model and their archiving process.

<https://help.sap.com/viewer/0cc7ab3f01db4133a5d830dfd566abb6/1809.002/en-EN/9d4d97535deced23e10000000a174cb4.html>

- Archived documents from previous releases can be displayed and evaluated in S/4HANA:

https://help.sap.com/docs/SAP_NETWEAVER_731_BW_ABAP/f0944a4717b5464f8d2343f9a44ff65b/4d8c781f910b154ee10000000a42189e.html?version=7.31.23

... entails changes,

R/3



ERP



SAP S/4HANA



optionally!

mandatory!

reveals minor weaknesses in the ERP archive data display in S/4,

General Ledger View for ERP data with PBS archive add on CFI

Details for transaction FAGLL03

Transaction FAGLL03 reacts differently by accessing archived documents, depending on:

- chosen option 'entry view' or 'General Ledger (G/L)-view' &
- documents archived before or after SAP S/4HANA migration

	Before SAP S/4HANA migration	After SAP S/4HANA migration			
	Archived documents (without any ledger info at all)	Archived documents (ONLY extension ledger, without leading ledger info)	Online documents (ONLY extension ledger, without leading ledger info)	Online documents (with leading ledger info)	document online or archived?
FAGLL03 entry view (Erfassungssicht)	Yes, documents will be listed	No	No	Yes	
FAGLL03 G/L-view (Hauptbuchsicht)	No (as there are no ledger info)	Yes	Yes	Yes	

point of time for archiving / posting

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PBS CFI: Alternative generation of the line items at runtime in the general ledger view transaction /PBS/FAGLL03

Maintaining table /PBS/CFI_CUSTOM →

CFI customizing for index processing		
Program name	Parameter Name	Value
/PBS/CFI_FAGL_ITEMS_ARCH	MIGDT	20220322

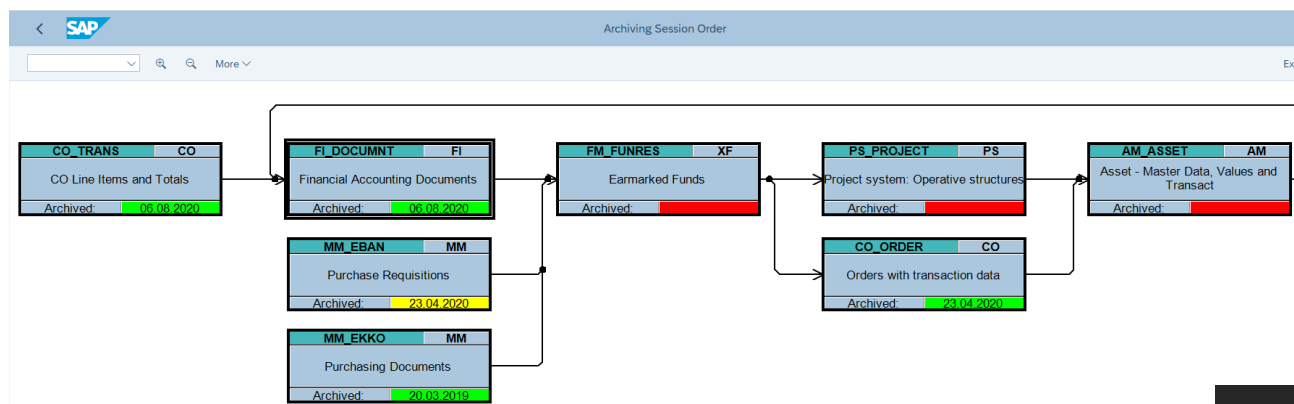
involves new dependencies and restrictions ...

subledger CO – CO_TRANS additional information

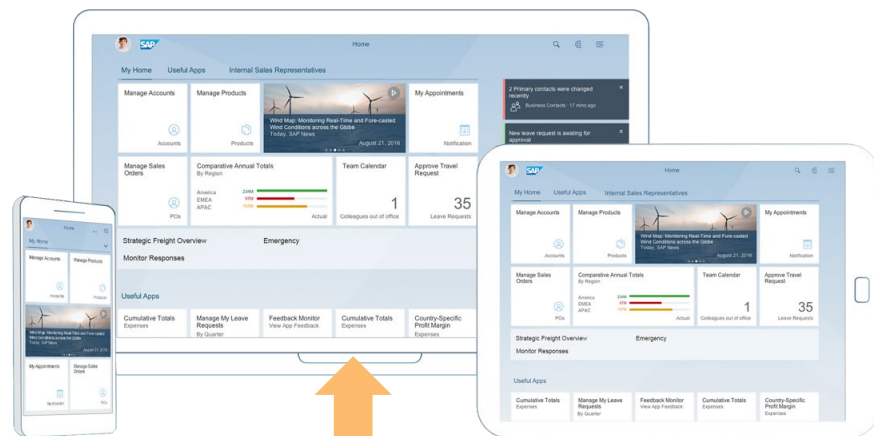


- Availability of CO_TRANS:
 - SAP S/4HANA Finance 1503 up to SP07 (SAP_FIN 720): see SAP notes 2230377, 2512758
 - The functionality is available without correction instructions as of:
 - SAP S/4HANA Finance 1503 SP08
 - SAP S/4HANA OP 1511 SP06
 - SAP S/4HANA Finance 1605 SP04
 - SAP S/4HANA OP 1610 SP00 and later releases
- Usage of reconciliation objects within CO_TRANS: see SAP note 2426075
- Usage of additional ledgers in FI (not only leading ledger): please implement SAP note 2535263
- Selection criteria of CO_TRANS:
 - not possible for single periods (like CO_ITEM)
 - as CO_TRANS is also archiving the totals (on a yearly basis as it always includes periods 1-12 and up to 4 special periods), complete year needs to be included in archiving
- CO_TRANS & CO_ALLO_ST: no dependency between them

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... and takes on new challenges!



S/4 HANA System

OData Service

CDS View

DDIC Table

SAP DB (SAP HANA)

DB Table

Fiori Apps as alternative for classical SAP GUI

General principle

Archive access

The audit-relevant programs that can read from the archive and have been transferred to SAP S/4HANA are retained. They continue to read in the (SAP ERP) format from the archive and display the data in the usual format. As a result, **reading from the archive continues to be supported**.

Newer programs that are based on the OData protocol or INA protocol do not offer archive access.

...

(see SAP note 2346296)

Please see also [SAP help](#) for further information

ODATA protocol = Open Data Protocol (used in SAP Fiori App solutions)

INA protocol = Information Access Protocol (used in SAP Analytic solutions)

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SAP standard apps do not provide access to archive data

Universal Journal → ACDOCA II

Consequences for data archiving

- New dependencies in archiving
 - AM_ASSET → FI_DOCUMENT
 - CO_TRANS → FI_DOCUMENT
- Table ACDOCA is archived and compressed, if necessary, but not **deleted**
- Persistence of table FAGLFLEXA, COSP for GoBD messages in the ADK file

Interesting SAP notes:

2190848, 2270404, 2346296, 2408083, 2579583, **2348153** → **VIEW FINSV_ARCH_SEL**

Interesting link: <https://dafrk-blog.com/de/acdoca-universal-journal-central-finance/>

Example data compression: FI Accounting

Standard

*Ledger: 0L (Ledger 0L) Company Code: 1010 (Buch...) G/L Account: 12300000 Status: All Items Posting Date: From

Line Items (4) Standard

Status	Assignment	Journal Entry	Journal Entry	Posting Date	Posting Key	Amnt in CompCd CrCy	Ta
<input type="checkbox"/>		1800000000	DR	01.02.2017	01	26.000,00 EUR	AC
<input type="checkbox"/>		1800000001	DR	03.02.2017	01	24.000,00 EUR	AC
<input type="checkbox"/>		2000000000	ZP	01.02.2017	15	-26.000,00 EUR	
<input type="checkbox"/>		2000000001	ZP	03.02.2017	15	-24.000,00 EUR	
						0,00 EUR	

- Archiving
- Archiving Posting Documents
 - F48A - Posting Documents
 - F64B - Transaction Figures
 - FINS_ARC_ANALYZE - Analyze Data
 - FINS_ARC - Compress Data
 - FINS_ARC_MONITOR - Display Status of Data Compression

Standard

*Ledger: 0L (Ledger 0L) Company Code: 1010 (Buch...) G/L Account: 12300000 Status: All Items Posting Date: From

Line Items (3) Standard

Status	Assignment	Journal Entry	Journal Entry ...	Posting Date	Posting Key	Amnt in CompCd CrCy	Ta
<input type="checkbox"/>		2000000000	ZP	01.02.2017	15	-26.000,00 EUR	
<input type="checkbox"/>		2000000001	ZP	03.02.2017	15	-24.000,00 EUR	
<input checked="" type="checkbox"/>		DR01000001				50.000,00 EUR	
						0,00 EUR	

SAP Version – Line Items in the General Ledger (Fiori App)

Before Archiving/Compression

PBS_DEMO ▾

*Ledger: OL (Ledger 0L) Company Code: 1 Item G/L Account: Status: All Items Posting Date: Clearing I

Line Items (181) Standard ▾

	Status	Assignment	Journal Entry	Journal Entry T...	Posting Date	Posting Key	Amnt in CompCd CrCy	Tax Code
>			G/L Account: 39912000 - Inventory - Initial Entry SF & Finish Gds Balances				-40.448.000,00	EUR
>			G/L Account: 41000000 - Revenue Domestic - Product				-169,00	EUR
>			G/L Account: 51600000 - Consumption - Trading Goods				136,24	EUR
>			G/L Account: 65003000 - Vehicle Costs				103.000,00	EUR
▾			G/L Account: 65009000 - Other Activity Costs					
	✓	0010101101	1900000000	KR	22.03.2016	40	1.000,00	EUR
	✓	0010101101	1900000001	KR	22.03.2016	40	2.000,00	EUR
	✓	0010101101	1900000002	KR	01.01.2016	40	100.000,00	EUR
	✓	0010101101	1900000003	KR	02.01.2016	40	17.000,00	EUR
	✓	0010101101	1900000004	KR	03.03.2016	40	19.000,00	EUR
	✓	0010101101	1900000005	KR	03.01.2016	40	80.000,00	EUR
	✓	0010101101	1900000006	KR	03.02.2016	40	18.000,00	EUR
	✓	0010101101	1900000007	KR	30.03.2016	40	1.000,00	EUR
	✓	0010101201	1700000000	KG	12.05.2016	50	-500,00	EUR
	✓	0010101201	1900000014	KR	12.05.2016	40	1.000,00	EUR
	✓	0010101201	1900000015	KR	12.05.2016	40	555,00	EUR
	✓	0010101201	1900000016	KR	12.05.2016	40	555,00	EUR
	✓	0010101201	1900000017	KR	13.05.2016	40	888,80	EUR
							240.498,80	EUR

SAP Standard

After

Archiving/Compression

PBS DEMO 2 ▾

Ledger: OL (Ledger 0L) Company Code: 1 Item G/L Account: Status: All Items

Line Items (55) Standard ▾

	Status	Assignment Reference	Journal Entry	Journal Entry T...	Posting Date	Posting Key	Amount in CC CrCy
▾			Company Code: 1010 - Buchungskreis 1010				
>			G/L Account: 11001010 - Bank 1 - Payment Request				-5.000.000,00
>			G/L Account: 12100000 - Trade Receivables Domestic				169,00
>			G/L Account: 12600000 - Input Tax (VST)				23,47
>			G/L Account: 13100000 - Inventory - Raw Material				130,00
>			G/L Account: 13600000 - Inventory - Trading Goods				114,66
>			G/L Account: 21100000 - Trade Payables Domestic				-1.146,97
>			G/L Account: 21120000 - Goods Received/Invoice Received				-127,40
>			G/L Account: 21300000 - Trade Payables affiliated Companies				-342.943,80
>			G/L Account: 29500100 - Document Split Clearing Account				0,00
>			G/L Account: 39911000 - Inventory - Initial Entry of Raw Material Balances				-130,00
>			G/L Account: 41000000 - Revenue Domestic - Product				-169,00
>			G/L Account: 51600000 - Consumption - Trading Goods				136,24
>			G/L Account: 65003000 - Vehicle Costs				103.000,00
▾			G/L Account: 65009000 - Other Activity Costs				
	✓		DR01000001				-500,00
	✓		DR01000001				1.555,00
	✓		DR01000001				888,80
	✓		DR01000001				197.000,00
	✓		DR01000001				18.000,00
	✓		DR01000001				23.000,00
							239.943,80

SAP Standard

PBS Version – Line Items in the General Ledger

SAP PBS Display Line Items in General Ledger

PBS_DEMO_INFOTAG_2022

Hide Filters

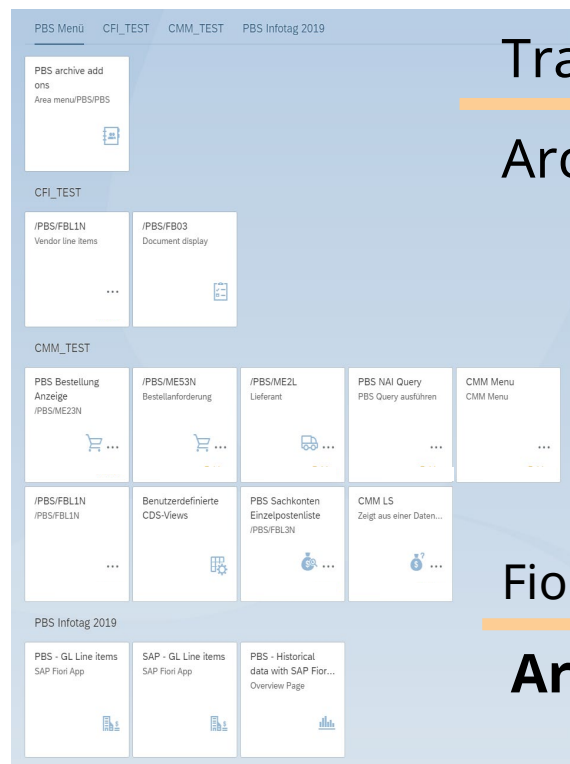
*Ledger: OL (Ledger 0L) Company Code: 1 Item G/L Account: Status: All Items Posting Date: Date Range (01.01.2016 - 31.12.2022) Controlling Area: =A000 Adapt Filters (5) Go

Line Items (103) Standard

Line Item Details

	Status	Assignment Reference	Journal Entry	Journal Entry T...	Posting Date	Posting Key	Amount in CC CrCy	Tax Code	Clearing Entry	Profit Center	Segment	Jrnl.Entry Item Text	Number of Items
>		G/L Account: 21120000 - Goods Received/Invoice Received					-127,40 EUR						1
>		G/L Account: 21300000 - Trade Payables affiliated Companies					-342.943,80 EUR						17
>		G/L Account: 29500100 - Document Split Clearing Account					0,00 EUR						2
>		G/L Account: 39911000 - Inventory - Initial Entry of Raw Material Balances					-130,00 EUR						1
>		G/L Account: 41000000 - Revenue Domestic - Product					-169,00 EUR						1
>		G/L Account: 51600000 - Consumption - Trading Goods					136,24 EUR						4
>		G/L Account: 65003000 - Vehicle Costs					103.000,00 EUR						3
>		G/L Account: 65009000 - Other Activity Costs											
	✓	0010101201	1700000000	KG	12.05.2016	50	-500,00 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
	✓	0010101201	1700000001	KA	12.05.2016	50	-555,00 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
	✓	0010101101	1900000000	KR	22.03.2016	40	1.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000001	KR	22.03.2016	40	2.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000002	KR	01.01.2016	40	100.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000003	KR	02.01.2016	40	17.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000004	KR	03.03.2016	40	19.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000005	KR	03.01.2016	40	80.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000006	KR	03.02.2016	40	18.000,00 EUR				YB600 (Shared...	1000_C (Segm...	1
	✓	0010101101	1900000007	KR	30.03.2016	40	1.000,00 EUR	VO			YB600 (Shared...	1000_C (Segm...	1
	✓	0010101201	1900000014	KR	12.05.2016	40	1.000,00 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
	✓	0010101201	1900000015	KR	12.05.2016	40	555,00 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
	✓	0010101201	1900000016	KR	12.05.2016	40	555,00 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
	✓	0010101201	1900000017	KR	13.05.2016	40	888,80 EUR	VO			YB110 (Produc...	1000_A (Segm...	1
							239.943,80 EUR						14
>		G/L Account: 66000000 - Other Operating Expenses					1.000,00 EUR						1

PBS provides under S/4: SAP GUI and SAP Fiori



Transaction
Archive + DB

Fiori App
Archive + DB

The screenshot shows the SAP GUI 'Vendor Line Item Display' transaction. The 'Vendor selection' section is filled with 'Vendor account: 17300001' and 'Company code: 1710'. The 'Line item selection' section shows 'Status: 1=DB+archive 2=DB 3=archive: 1' and 'Open items: 1'. The 'PBS Display Line Items in General Ledger' section shows a list of line items with columns for Status, Assignment Reference, Journal Entry, Journal Entry T..., Posting Date, Posting Key, and Amount in CC Crpy.

Status	Assignment Reference	Journal Entry	Journal Entry T...	Posting Date	Posting Key	Amount in CC Crpy
>	GL Account: 21120000 - Goods Received/Invoice Received					-127.40 EUR
>	GL Account: 21300000 - Trade Payables affiliated Companies					-342.943.80 EUR
>	GL Account: 29901000 - Document Split Clearing Account					0.00 EUR
>	GL Account: 39911000 - Inventory - Initial Entry of Raw Material Balances					-130.00 EUR
>	GL Account: 41000000 - Revenue Domestic - Product					-169.00 EUR
>	GL Account: 51600000 - Consumption - Trading Goods					136.24 EUR
>	GL Account: 65003000 - Vehicle Costs					103.000.00 EUR
>	GL Account: 65009000 - Other Activity Costs					
✓	0010101201	1700000000	KG	12.05.2016	50	-500.00 EUR
✓	0010101201	1700000001	KA	12.05.2016	50	-555.00 EUR
✓	0010101101	1900000000	KR	22.03.2016	40	1.000.00 EUR
✓	0010101101	1900000001	KR	22.03.2016	40	2.000.00 EUR
✓	0010101101	1900000002	KR	01.01.2016	40	100.000.00 EUR
✓	0010101101	1900000003	KR	02.01.2016	40	17.000.00 EUR
✓	0010101101	1900000004	KR	03.03.2016	40	19.000.00 EUR
✓	0010101101	1900000005	KR	03.01.2016	40	80.000.00 EUR
✓	0010101101	1900000006	KR	03.02.2016	40	18.000.00 EUR
✓	0010101101	1900000007	KR	30.03.2016	40	1.000.00 EUR
✓	0010101201	1900000014	KR	12.05.2016	40	1.000.00 EUR
✓	0010101201	1900000015	KR	12.05.2016	40	555.00 EUR
✓	0010101201	1900000016	KR	12.05.2016	40	555.00 EUR
✓	0010101201	1900000017	KR	13.05.2016	40	888.80 EUR
						239.943.80 EUR
>	GL Account: 66000000 - Other Operating Expenses					1.000.00 EUR

The screenshot shows the SAP Fiori App 'Vendor Line Item Display' transaction. The 'Vendor' section shows 'Vendor: 17300001', 'Name: Domestic US Supplier 1', 'Street: 198 S Ohio Ave', 'City: Muncie', and 'TelephoneNumber: +1 47305-2757'. The 'Company Code' section shows 'Company Code: 1710', 'Clerk at vendor: 1710-SUPL1', 'TelephoneNumber: +1 (999 856 4321)', 'Clerk's internet: 0004', and 'Account Memo: 0004'. The 'Table' section shows a list of line items with columns for St, Assignment, DocumentNo, Type, Doc. Date, S, DD, Amount in Local Crpy, LCurr, Clrng doc, and A.

St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in Local Crpy	LCurr	Clrng doc	A
✓		5105600224	RE	03.02.2015			11.366.152,51-	USD	1500000001	
✓		1500000002	KZ	31.03.2015			24.177.316,57	USD	1500000002	
✓		5105600222	RE	03.01.2015			12.171.672,36-	USD	1500000002	
✓		5105600226	RE	03.03.2015			12.005.644,21-	USD	1500000002	
✓		1500000003	KZ	30.04.2015			14.078.140,46	USD	1500000003	
✓		5105600231	RE	02.04.2015			14.078.140,46-	USD	1500000003	
✓		1500000005	KZ	30.06.2015			24.987.010,89	USD	1500000005	
✓		5105600234	RE	02.05.2015			12.841.253,59-	USD	1500000005	
✓		5105600237	RE	02.06.2015			12.145.757,30-	USD	1500000005	
✓		1500000006	KZ	31.07.2015			12.203.991,31	USD	1500000006	*
✓		5105600240	RE	02.07.2015			12.203.991,31-	USD	1500000006	
✓		1500000008	KZ	30.09.2015			16.097.136,80	USD	1500000008	
✓		5105600243	RE	02.08.2015			16.097.136,80-	USD	1500000008	
✓		1500000009	KZ	31.10.2015			11.524.501,70	USD	1500000009	*
✓		5105600248	RE	03.10.2015			11.524.501,70-	USD	1500000009	

S/4HANA – Data Accesses

Traditionally

- Database access via SELECT, archive via ADK interface
- PBS archive add ons: → File-based archive data access for ERP and S/4HANA
- S/4 applications: transactions, reports

Currently

- Data is accessed via OData services
→ database-based archive data access for S/4HANA archive data via PBS sidecar DB
- S/4 applications: Fiori, analytical applications

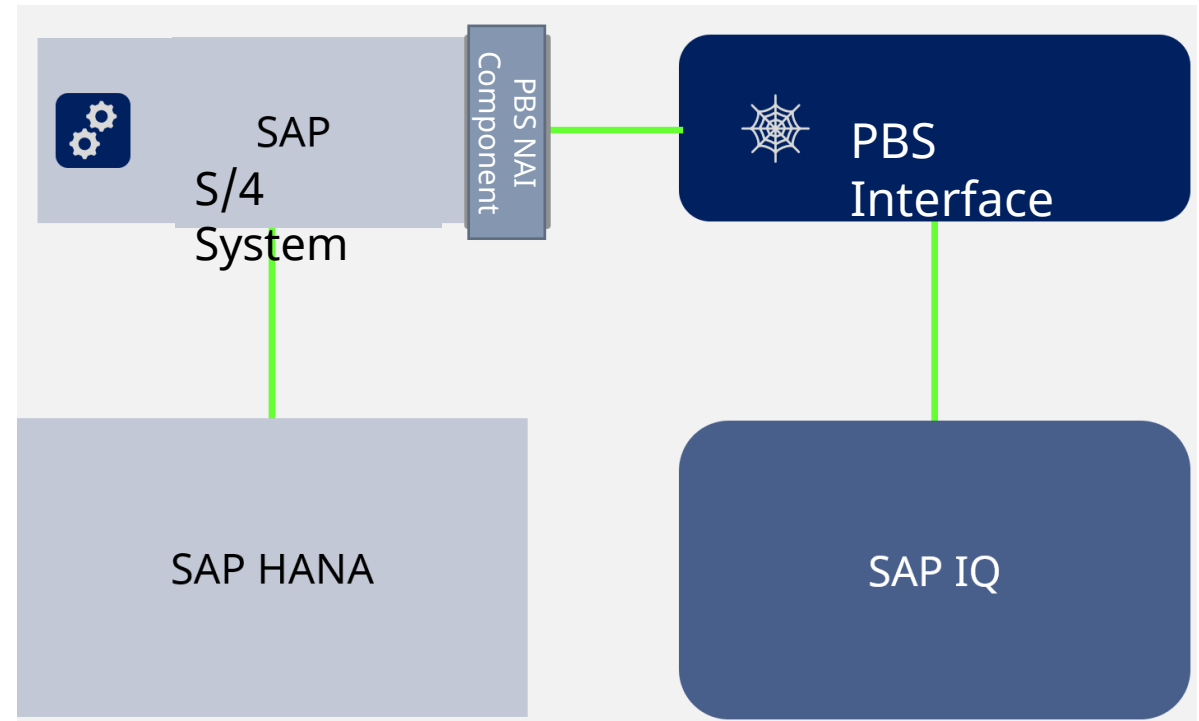
Generally

- Technology enhancement necessary

PBS Nearline Analytic Infrastructure (PBS NAI)

Business functions:

- PBS archive data access on HANA level for transactions, reports, ad hoc queries and Fiori apps
- Optimizing SAP archive information system
- Archive solution 3rd party data (PBS EDS)
- Archive solution SAP legacy data (PBS NAA)
- Data provider for analytical applications (SAP/non-SAP)



SAP Data Sources in the GoBD Environment

Audit and Retention Period

Time



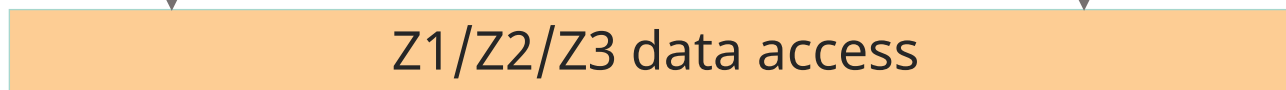
Archiving reason: volume



Archiving reason: GDPR



Obligation for an early and
timely archiving



National Data Access via BEA Model Version 1.2 from 12/2020

Federal and State Working Groups "audit Software" (working group PSW) and "SAP experts group" (working group SAP experts)	Nationally coordinated data request for data extraction from an SAP system when using the Data Retention Tool (DART) ("BEA Model")	
	Version 1.2	Status 12/2020

For each audit year, the submission of the DART segments of the following selected assets is requested for all posting periods:

- Financial accounting
- Asset accounting
- Cost accounting
- Materials management
- Sales and distribution
- Master data change



Finanzbuchhaltung (FI)

Erforderliche Dateien für die Finanzbuchhaltung:

DART-Segment	Referenztable(n)	Beschreibung
TXW_ACCTYP		Kontoarten
TXW_BBACC	GLT0, T001	Salden des Sachkontos
TXW_BBCUS	KNC1, T001	Kundensalden

Materialwirtschaft (MM)

Erforderliche Dateien für die Materialwirtschaft:

DART-Segment	Referenztable(n)	Beschreibung
TXW_MAT	MAKT, MARA, MARC, MATERIAL ID	Materialstamm

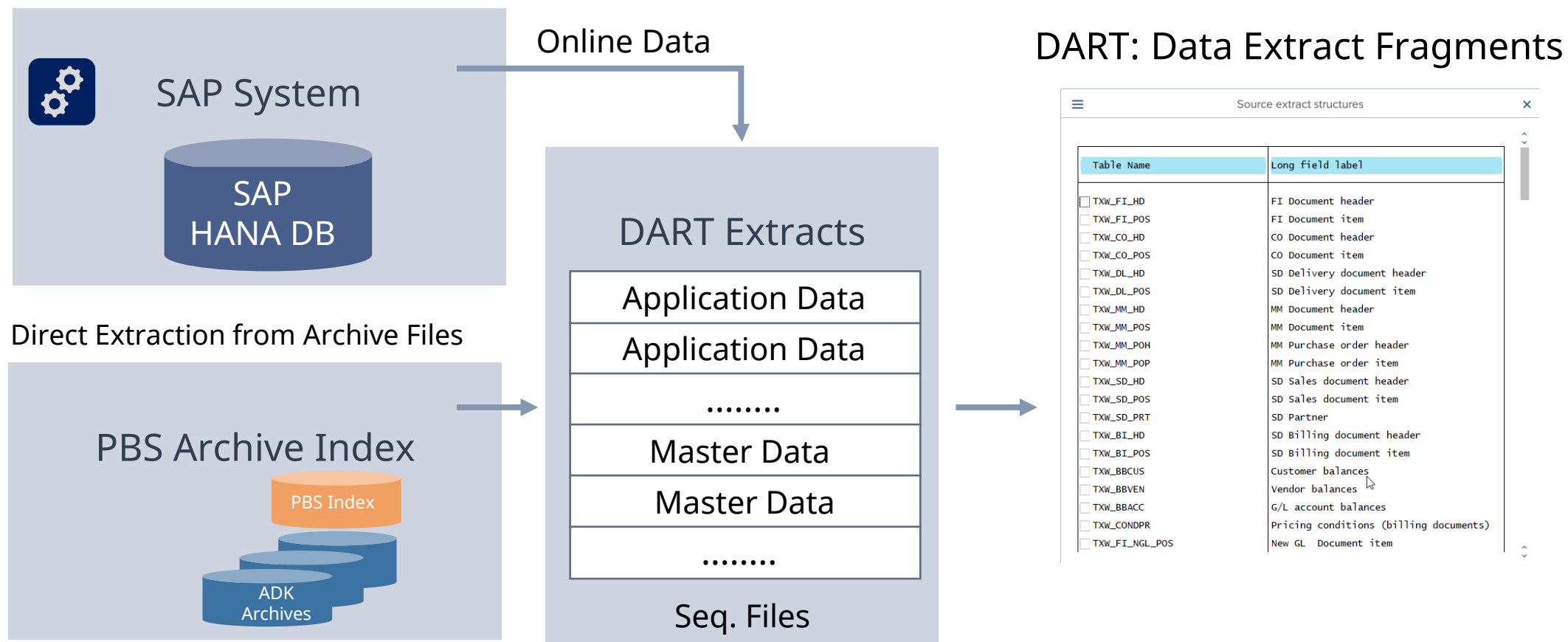
Vertrieb (SD)

Erforderliche Dateien für den Vertrieb:

DART-Segment	Referenztable(n)	Beschreibung
TXW_AFVC	AFVC	Auftragsarbeitsvorgang
TXW_BI_HD	VBRK	SD Fakturabelegkopf
TXW_BI_POS	VBRP	SD Fakturabelegposition
TXW_BITYPE	TVFK, TVFKT	Fakturaarten
TXW_CONDPR	KONV	Preiskonditionen (Fakturabelege)
TXW_CONTP	T685, T685T	Konditionsarten
TXW_INCOT	TINC, TINCT	Kunden: Incoterms: Texte
TXW_SD_HD	VBAK	SD Verkaufsbelegkopf
TXW_SD_POS	VBAP	SD Verkaufsbelegposition
TXW_SD_PRT	VBPA	SD Partner

Applicable for PBS CDART/PBS Data Export Interface

PBS CDART for S/4HANA from 1609 – Version 2.9 e



PBS Data Export Interface as a DART Alternative

SAP PBS Extract Monitor for SAP DART Segments Version 1.2 2020

Save as Variant... More

Basic data financial accounting

Company code:

Fiscal year:

* Posting period from: / * to: /

Open items at key date:

Change documents for master data from: * To:

Parallel Accounting ☐

Additional restrictions ☐

Basic data asset management

Depreciation area:

Report date:

General basic data

Description for extract:

File directory:

☐ Create subdirectory per company code and fiscal year?

File name: prefix:

Extraction language:

Scope of extraction

application-specific: ☒

Financial accounting (FI) ☒

Asset accounting (AA) ☒

Cost accounting (CO) ☒

Materials management (MM) ☒

Sales and distrib. (SD) ☒

segment-specific: ☐

Extract segments:

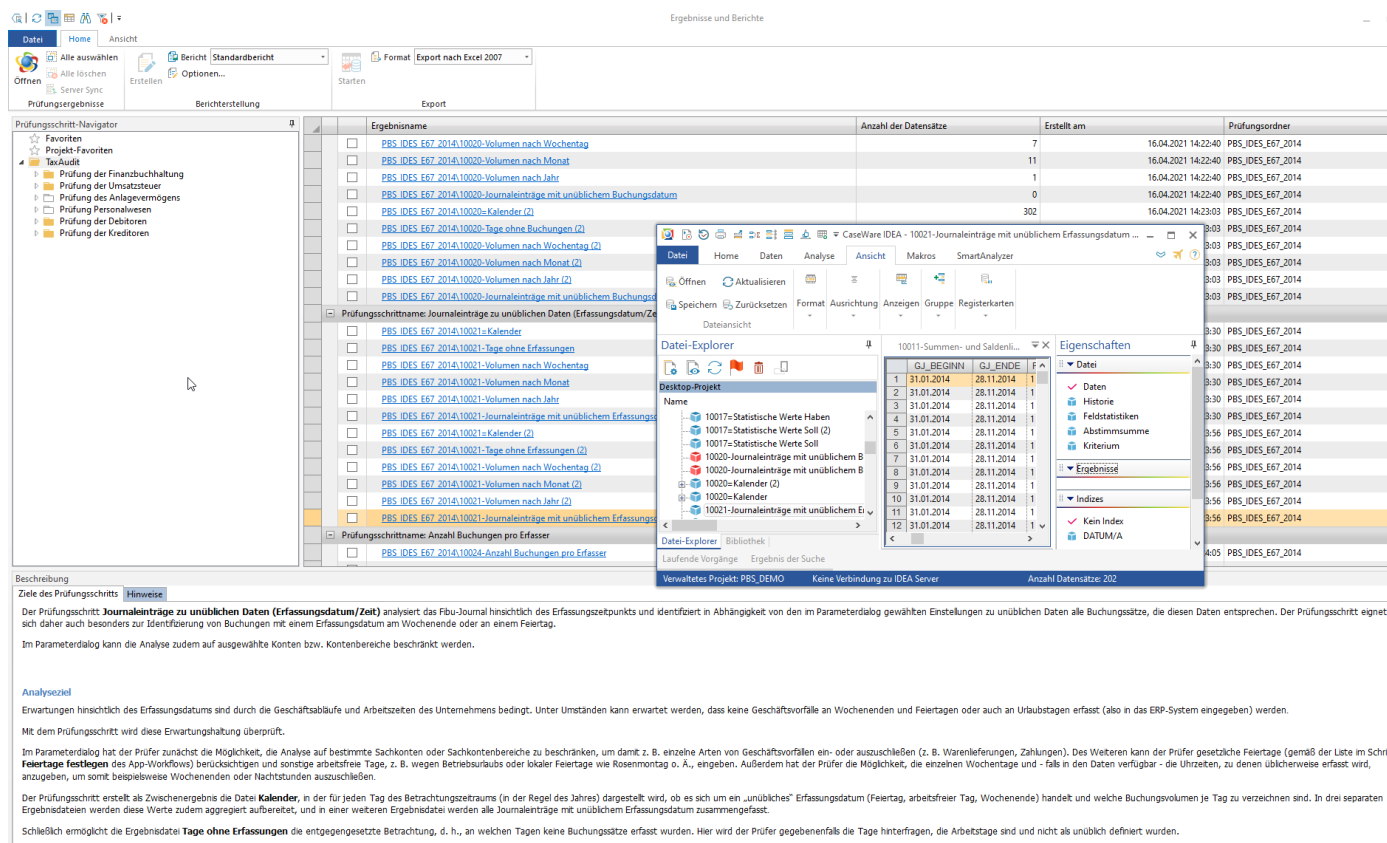
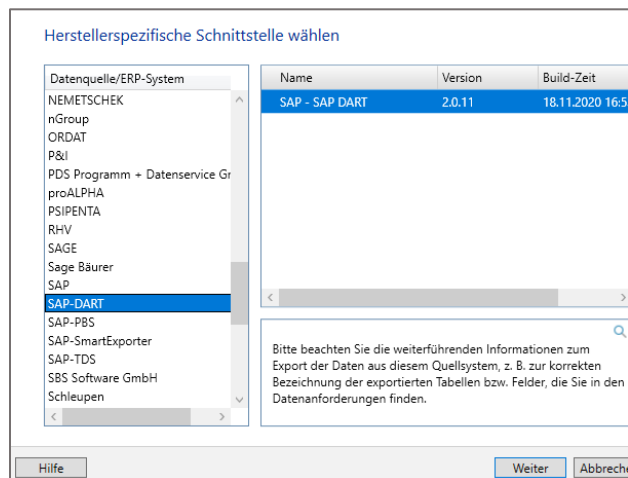


SAP PBS Extract Monitor for SAP DART Segments Version 1.2 2020

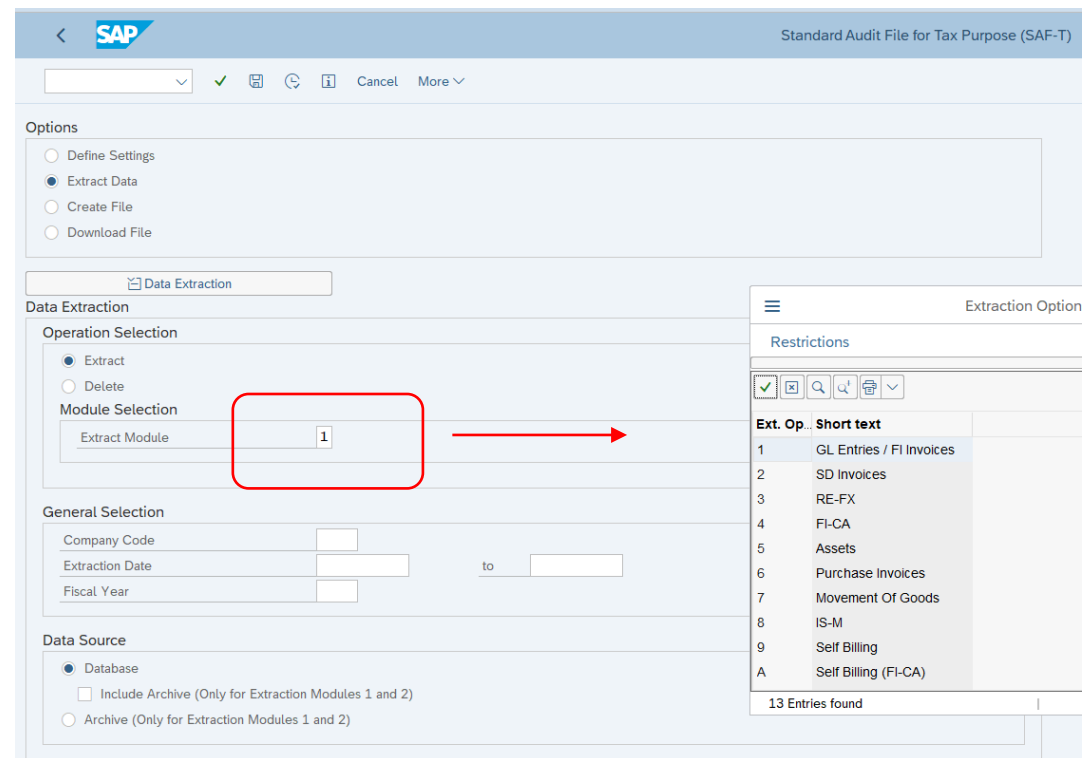
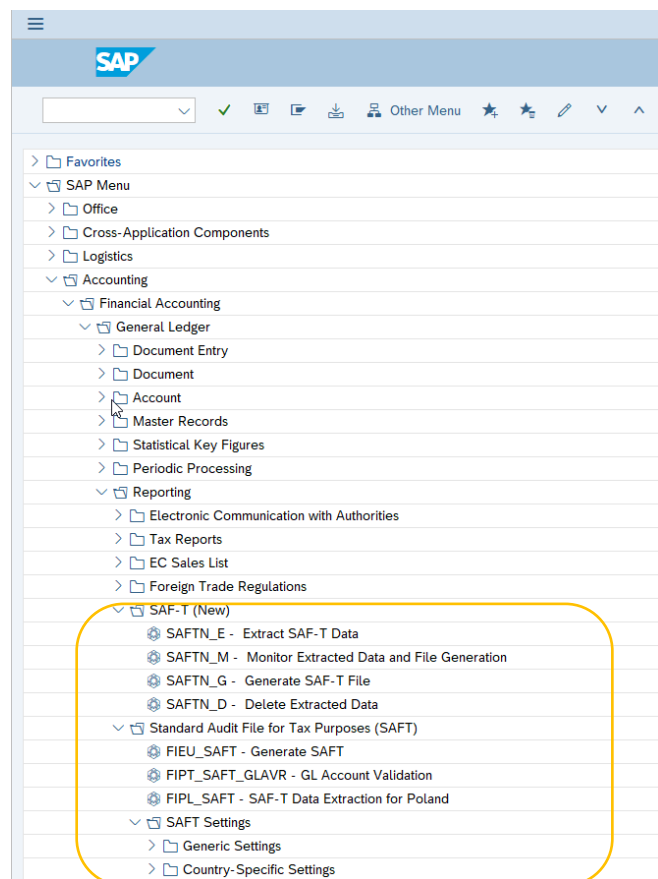
Adopt segments More

Select.	Application	Segment	Description
<input type="checkbox"/>	AA	TXW_ACCDET	Kontenfindung
<input type="checkbox"/>	AA	TXW_AD_HD	AM Anlagebelegkopf
<input type="checkbox"/>	AA	TXW_AD_POS	AM Anlagebelegposition
<input type="checkbox"/>	AA	TXW_ANLA	Anlagenstammdaten
<input type="checkbox"/>	AA	TXW_ANLB	Abschreibungsbedingungen
<input type="checkbox"/>	AA	TXW_ANLC	Anlagenwertfelder (bis 05/2019)
<input type="checkbox"/>	AA	TXW_ANLC_TD	Anlagenwertfelder (ab 06/2019)
<input type="checkbox"/>	AA	TXW_ANLZ	Anlagen-Kostenstellen
<input type="checkbox"/>	AA	TXW_ASSCLA	Anlagenklassen
<input type="checkbox"/>	AA	TXW_ASSDEP	Bewertungsbereiche
<input type="checkbox"/>	AA	TXW_ASSEDP	Externe Abschreibungsschlüssel
<input type="checkbox"/>	AA	TXW_ASSIDP	Abschreibungsschlüssel intern
<input type="checkbox"/>	AA	TXW_ASSPRC	Afa-Rechen-Schlüssel Prozent Sätze
<input type="checkbox"/>	AA	TXW_ASSTRA	Bewegungsarten der Anlagenbuchhaltung
<input type="checkbox"/>	AA	TXW_AS_PRV	AM Anteilige Werte der Anlagenbelegpositionen
<input type="checkbox"/>	AA	TXW_CD_ANLA	Historie Stammdaten Anlagevermögen
<input type="checkbox"/>	AA	TXW_T090NAZ	Abschreibungsschl. Methodenzuordnung
<input type="checkbox"/>	AA	TXW_T090NS	Abschreibungsstufenmethode
<input type="checkbox"/>	AA	TXW_T093C	Buchungskreise in der Anlagenbuchhaltung
<input type="checkbox"/>	AA	TXW_T096	Bewertungsplan Beschreibung
<input type="checkbox"/>	CO	TXW_CCTYPE	Kostenstellentypen
<input type="checkbox"/>	CO	TXW_COELTP	Kostenartentypen
<input type="checkbox"/>	CO	TXW_COHIER	CO Standard-Kostenstellenhierarchie
<input type="checkbox"/>	CO	TXW_COOBCL	Objektklasse (Controlling)
<input type="checkbox"/>	CO	TXW_CO_COST_TOTALS	Controlling-Objekte: Gesamtkosten
<input type="checkbox"/>	CO	TXW_CO_HD	Belegkopf CO
<input type="checkbox"/>	CO	TXW_CO_POS	Belegposition CO
<input type="checkbox"/>	CO	TXW_CO_SHD	Belegkopf (Sekundärbuchungen)
<input type="checkbox"/>	CO	TXW_CO_SPOS	Belegposition (Sekundärbuchungen)
<input type="checkbox"/>	CO	TXW_PCHIER	CO Standard-Profit-Center-Hierarchie
<input type="checkbox"/>	CO	TXW_TBO00	Objektarten-Steuerparameter Beschreibungen
<input type="checkbox"/>	FI	TXW_ACCTYP	Kontoarten...
<input type="checkbox"/>	FI	TXW_BBACC	Sachkontensalden
<input type="checkbox"/>	FI	TXW_BBCUS	Debitorensalden
<input type="checkbox"/>	FI	TXW_BBVEN	Kreditorensalden

PBS subsequent Process in Audicon Smart Analyzer



International Standards



supported by the PBS archive add ons

Advanced Compliance Reporting

SAP Help Portal
Browse by Product

Home > SAP S/4HANA > Advanced Compliance Reporting > Country/Region-Specific Reports

Advanced Compliance Reporting

2020 FPS01 (Feb 2021) English

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- Advanced Compliance Reporting
 - Country/Region-Specific Reports**
 - Reusable Objects in Advanced Compliance Reporting
 - Key Features
 - Configuration Requirements
 - Flexible Workflow for Advanced Compliance Reporting
 - Run Compliance Reports
 - Extensibility in Advanced Compliance Reporting
 - Glossary

Country/Region-Specific Reports

The following country/region-specific reports are already available for you. For detailed information on how to run the reports, click the link of the report below:

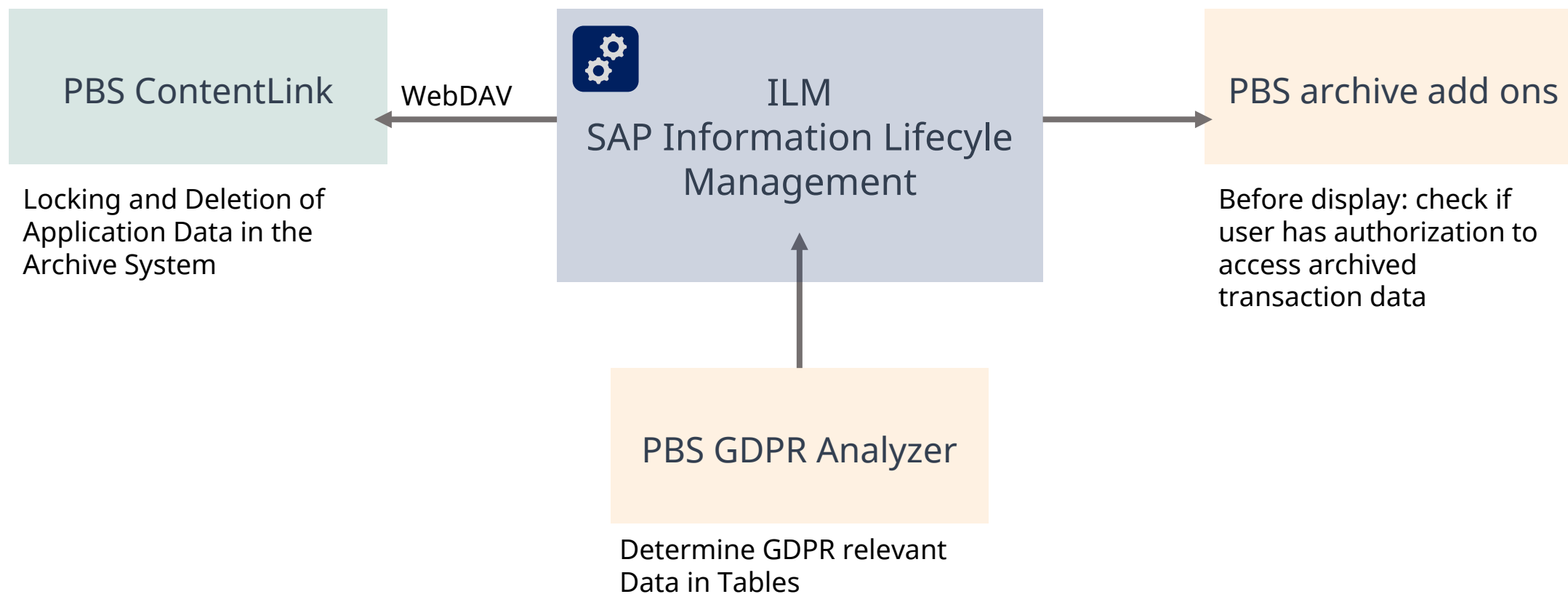
Hide/show columns Search entire table

Country/Region	Reports	Local Legal Name	Output Format	ECC Report Name	Business Catalogs
Search column	Search column	Search column	Search column	Search column	Search column
Argentina	Daily VAT - Electronic Duplicate	IVA Diario Argentina - Duplicado Electrónico	TXT	J_1AF205 (old) RPF1GLAR_TAXREPORTING (new)	SAP_FIN_BC_GL_REPORT
Argentina	SIRE VAT Withholding Tax Returns	SIRE - Retenciones de IVA	TXT	RPF1WTAR_SIRE_SICORE	SAP_FIN_BC_AP_ANALYT
Argentina	Form 731	Formulario 731	Table View	No report in ECC	SAP_FIN_BC_GL_REPORT
Argentina	Last Official Document Number	Último Número de Documento Oficial	Table View	J_1AFONR	SAP_FIN_BC_GL_REPORT
Argentina	Purchase VAT	Régimen de Información de Compras y Ventas: Archivos de Compras	TXT	J_1AF217 (old), RPF1GLAR_TAXREPORTING (new)	SAP_FIN_BC_GL_REPORT

PBS archive data access in planning/preparation

PBS – ILM Component GDPR

Effectively restrict Processing of personal Data (On-Prem/Cloud)



Definition of Locking and Deletion Requirements

SAP ILM – Rule Characteristics Master Data

* Regelwerkategorie: Verweilregeln

* Objektkategorie: SAP Business Suite

Prüfgebiet: BUPA_DP BUPA_DP

ILM-Objekt:



ILM Policies

Policy Category Residence Rules Audit Area Business Partner: EoP Lock Object Category

Change Status Transport Export Import Overview

ILM Object	Policy Name	Policy Stat...	Object in Audit Ar...	Changed on
FI_ACCKNVK	PBS_KUNDE	Live	<input checked="" type="checkbox"/>	11.01.2018
FI_ACCRECV	PBS_KUNDE	Live	<input checked="" type="checkbox"/>	11.01.2018

Rules for Policy PBS_KUNDE

Application Name	Application Rule Var	Residence Period	Residence Prd Unit	Time Ref.
ERP_CONTACT_PERSON		0	Day	Start of Retention Period

Transaction Data

ILM Policies

Continue New

* Policy Category: Retention Rules

* Object Category: SAP Business Suite

Audit Area: PBSGENERAL

ILM Object: FI_DOCUMENT



ILM Policies

Policy Category Retention Rules Audit Area General Rules Object Category

Change Status Transport Export Import Overview

Policy Name	Policy Status	Object in Audit Ar...	Changed on
PBSBUKR...	Not Live	<input checked="" type="checkbox"/>	08.05.2019
PBS_BLART	Not Live	<input checked="" type="checkbox"/>	29.07.2019
PBS_BSCHL	Not Live	<input checked="" type="checkbox"/>	16.04.2018

Rules for Policy PBSBUKRS01

Company Code	To	Authorization Group	Min.Retention Period	Max.Retention Period	Retention Prd Unit	Time Ref.
		NM01	10	12	Year	End of Year
			7	8	Year	End of Year

Documents

ILM Policies

Continue New

* Policy Category: Retention Rules

* Object Category: SAP Business Suite

Audit Area: DEMO

ILM Object: AL_DOCUMENTS



Policies

Change Status Transport Export Import Overview

Policy Name	Policy Status	Object in Audit Ar...	Changed on	Changed by
DEMO_WS	Live	<input checked="" type="checkbox"/>	15.05.2018	

Rules for Policy DEMO_WS

Inherit Rule	Min.Retention Period	Max.Retention Period	Retention Prd Unit	Time Ref.
<input type="checkbox"/>	1	5	Day	Storage Date

SAP WebDAV Administration

SAP ILM Storage Browser

Archive Files

Store Hierarchy

Show URI List Editing

Details

Storage and Retention Service (EM8)

em8

100

ad

fi_docmnt

31

aa

19961231

000121

000121-001fi_docmnt.adk

pbs

...

Resource

Name: 000121-001fi_docmnt.adk

URI: /em8/100/ad/fi_docmnt/aa/19961231/000121-001fi_docmnt.adk

Type: ADK

Res. Size (KB): 29.322

Created on/at: 14.11.2019 06:38:29

User: MEIER

File note:

Attributes

compulsory_destruction_date: 1999-12-31

expiration_date: 2021-06-01

start_of_retention: 1996-12-31

Documents

Store Hierarchy

Attributes

Storage and Retention Service (EM7)

em7

100

al

bkpf

fiiinvoice

20180501

e6

_11.bin

_12.bin

al_crep_id: E6

al_doc_class: PDF

al_doc_id: 00505691871D1EE896824EAA2E05D6BE

al_doc_type: FIIINVOICE

al_mime_type: application/pdf

al_obj_id: 100001000122861999

al_obj_type: BKPF

al_sid: EM7

al_store_date: 2018-05-15

al_table: TOA01

compulsory_destruction_date: 2018-05-06

expiration_date: 2018-05-15

start_of_retention: 2018-05-01

Ressource

Name: _11.bin

URI: /em7/100/al/bkpf/fiiinvoice/20180501/e6/_11.bin

Typ: BIN

Res.-Größe (B): 0

Anlegezeitpunkt: 15.05.2018 09:02:18

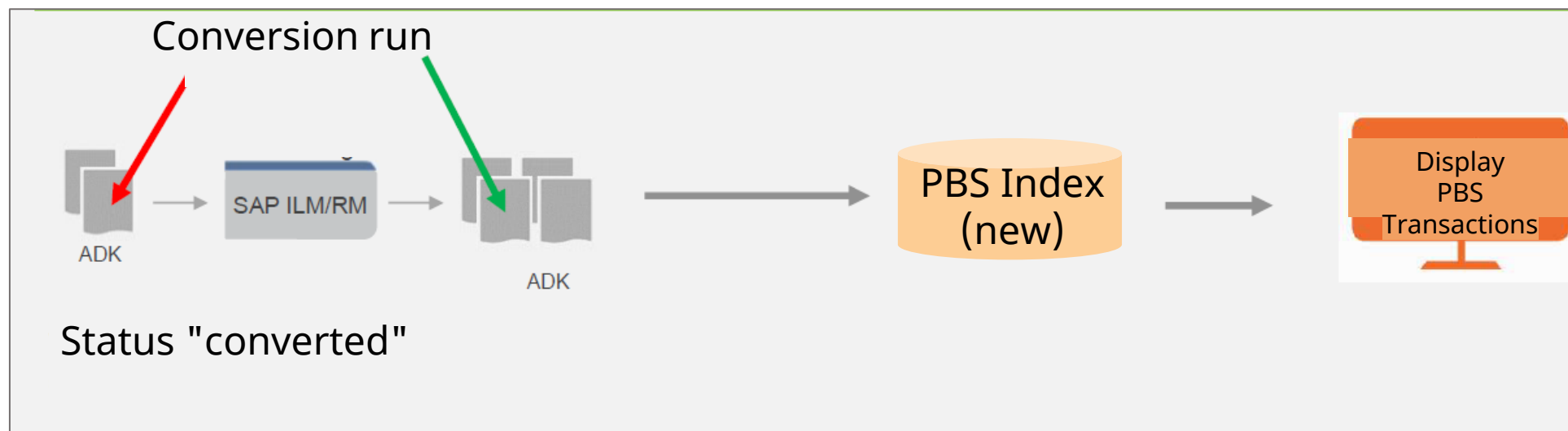
Benutzer: STEFFEN

SAP ILM Project Experience

- A **complex ILM rules** entails an intensive check during data access on single object level and **slows down the data access** for mass evaluations
- First no **archive file** has to be migrated to WebDAV to **apply the ILM rules**. A migration is only necessary if the ILM destruction process should be used (transaction ILM_DESTRUCTION)
- Caution when converting a file! **Many condition fields** in the rules inevitably result in a granular splitting of the source archive in the WebDAV → **physical limit**: 999 files.
- Central authorization objects
 - Block display of archived data: S_IRM_BLOC
 - Assign access to expired resource: S_IRM_BL_M

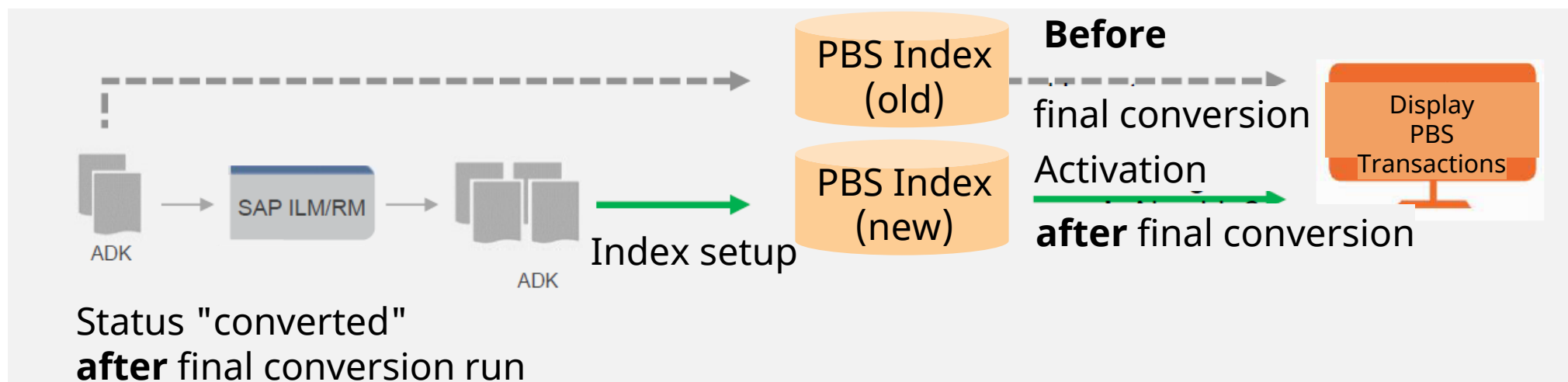
GDPR Challenge – ADK File Conversion 1

Rule Process



GDPR Challenge – ADK File Conversion 2

PBS Enhancement Process (Project Solution)



ILM Files – Realization of Access

- Generally: seamless conversion of SAP ILM rules in the PBS archive add ons
- Enhanced functionality when using archived application data

PBS CFI Indexing

Data from SAP ERP Central Component 6.0

Select manually:

SAP arch. from 01.01.2000 to 31.12.9999

☒ All archive files
☐ Non-indexed archive files

☐ Select only archive files from file conversion
☒ Ignore expired archive files
Waiting time in days 1

☒ max. number phys. files 999
☐ 400.000

Extract: 24,2 GB, Sort: 24,2 GB

Select automatically:
Delete old runs
Index correction

☒ Delete index for invalid/archived ADK files

PBS TAANA

Table Analysis: Administration

Start Table Analyses

Table Name
Analysis Variant

Data source
☒ Database
☐ Archive

Archiving Object
Archiving Session
Expir. date of archive file

ILM
☒ No restriction
☐ Only files that become invalid after expiration date
☐ Only files that are still valid until expiration date

Processing Options
☒ In the Background
☐ Online

PBS STATS

Retrieval
Archiving Object
Run ID
Comment
Class name for user exit

Archive data
Archiving Session
Date of Archiving
Key for Archive File

ILM
☒ No restriction
☐ Only files that become invalid after expiration date
☐ Only files that are still valid until expiration date

Control of retrieval
Number of parallel processes
Scheduling server

PBS Migration S/4HANA

- Add-on product range in ERP and S/4HANA for the migration period to support for system conversion
- PBS NAA to realize access to historical data via a leading S/4HANA system

PBS Compliance S/4HANA

- Add-on integration for timely implementation of SAP data archiving in S/4HANA systems with high load or active SAP ILM/GDPR.
Migrationfree access to ERP archive data during system conversion
- Integration of archive server solution PBS ContentLink to support SAP ILM, compliant data storage and replacement of historical Fixed Content storage systems with target environment on-prem or cloud including certified migration process (PBS partners)
- Using PBS extract functionalities (for example CDART, Data Export Interface and CONTRAX) to comply with national and international extraction standards (BEA model, FEC, SAF-T, country-specific reporting) for archive and database data

PBS Analytics S/4HANA

- Integration of database data **and** archive data in open data log (OData service)
- Support of GUI-based analysis via PBS NAI query for internal and external data (for example POS data)
- Support of SAP Fiori
- Support of SAP KPI Modeler → aggregated data display via KPIs
- Support of SAP Analytics Cloud
- Support of third party applications with OData interface (Excel, Power BI, etc.)

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