



Brilliant and Smart:

Display Legacy Data in S/4

Dagmar Fischer
Product Manager NAA

Expert for Data Management Legacy Data

Agenda

Business Case

Market Check – Concept of an optimal Solution

PBS NAA: Implementation

PBS NAA: Display and Evaluation (live demo)

Summary

Business Case: Access to Legacy Data in S/4

- SAP systems that are no longer used productively should not be migrated to S/4 and decommissioned for cost reasons.
- Decommissioning of these systems should involve minimum effort.
- Obligation for data retention:
Legacy data must still be available for evaluations according to legal regulations and comply with the requirements of user departments over the years.
- Data should be kept centrally and easy to access.



Market Check

- How complex is the solution?
- What infrastructure is required for the solution?
- How is the data copied?
- How can users or auditors access the data?
- How transparent is the pricing model and how can future costs be planned?

Concept of an optimal Solution

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

Concept of an optimal Solution I

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

- Low project effort, simple implementation
- Uncomplicated: easy infrastructure installation
- Scalable: easy connection of further SAP legacy systems possible at any time
- Flexible: on-premise and Cloud

Concept of an optimal Solution II

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

- Full control: transparent, complete, validated, comprehensible, documented, "suitable for auditors"
- Full extent: database and archive data

Concept of an optimal Solution III

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

- Almost no training required for users
- Sound authorization concept
- Complying with legal requirements (German GoBD, GDPR)
- Table-based display
- Take into account customer-specific tables and fields, allow implementing customer-specific requirements
- Maintain business context
- Access to linked documents
- Transactional data display via all SAP modules

Concept of an optimal Solution IV

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

- Proof of Concept
- Minimal implementation effort
- Implementation either with/or without implementation partner
- Maintenance, software updates

Concept of an optimal Solution V

Implementation

Data Transfer

Data Display and Evaluation

Project Implementation Support

Costs

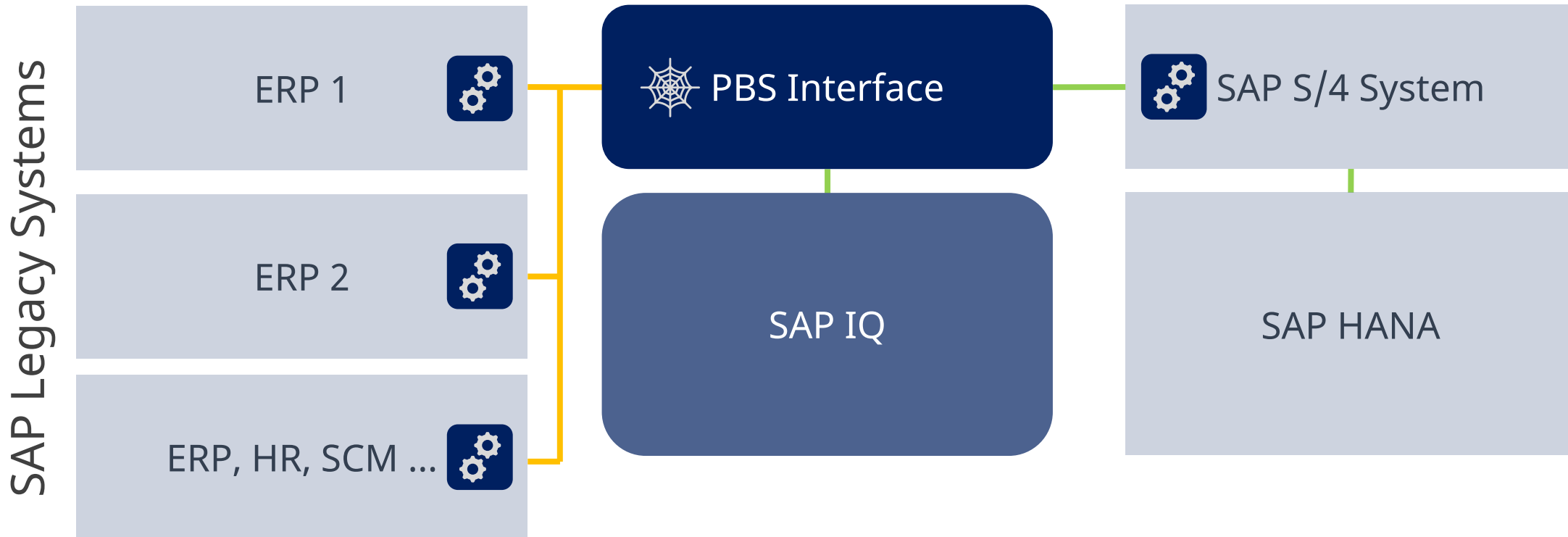
- Transparent license model
- Minimal project effort, short project runtime
- Manageable costs for operation
- Minor administration and maintenance effort



PBS NAA: Implementation

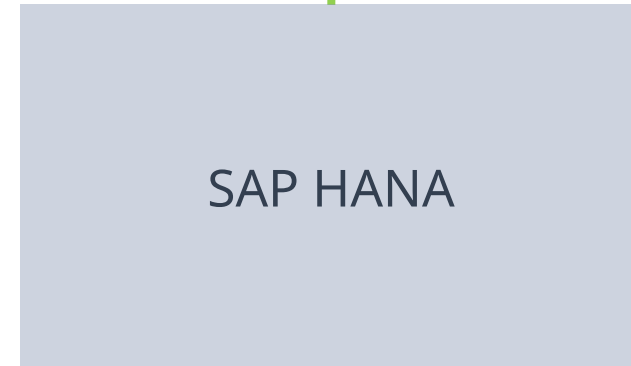
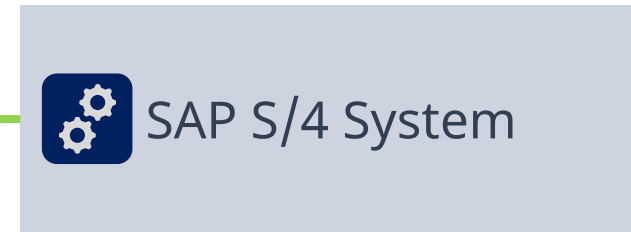
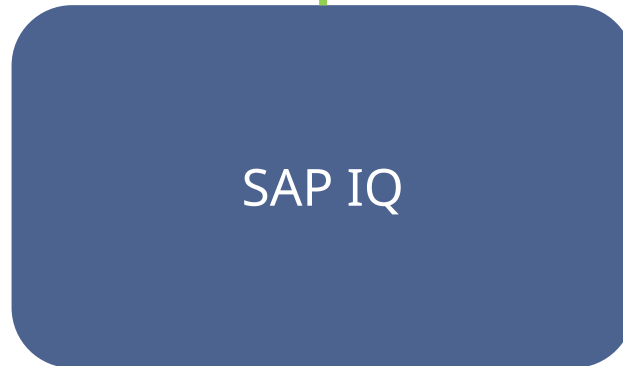
- Infrastructure
- Installation
- Data Transfer

PBS NAA: Implementation - Infrastructure



PBS NAA: Implementation – Infrastructure

SAP Legacy Systems



PBS NAA: Implementation – Installation

Installation Non-ABAP Components

- SAP IQ and PBS interface

Installation ABAP Components in Legacy System/s and S/4HANA System

- Importing ABAP packages (SAINT, SPAM, STMS)

Effort in total: 2/3 Person-days

PBS NAA: Implementation – Installation

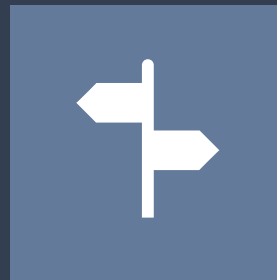
- ✓ Uncomplicated
- ✓ Scalable
- ✓ Flexible

PBS NAA: Implementation – Data Transfer

PBS Extraction Suite



Data Analysis



Data Extraction



Data Control

PBS NAA: Implementation – Data Transfer

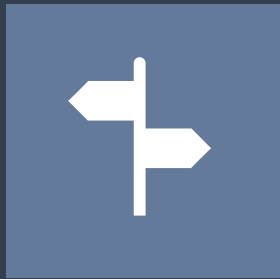


Data Analysis

Data analysis per system/client

- SAP database:
Analysis defines all relevant tables for the data transfer with details on type, size, client dependency, fields
- SAP archive data:
Analysis defines all ADK files for archiving runs/objects with details on size, related tables/structures

PBS NAA: Implementation – Data Transfer



Data Extraction

Organization in profiles based on data analysis

- distribution of the extraction according to application component, table category, delivery class, archiving object
- create job chains: schedule and monitor jobs
- table contents are copied 1:1 to SAP IQ

PBS NAA: Implementation – Data Transfer



Data Control

Completeness checks

- metadata and logs
- validation: tables, table fields/lines, contents (check sum formation)

Automated documentation

- customizing of profiles
- process of extraction and validation
- data volume and runtimes

PBS NAA: Implementation – Data Transfer

Example from project:
Documentation of extraction process (excerpts)

```

13.05.2022                Dokumentation des Extraktionsprozess
-----
Dokumentation CONTRAX Stilllegung      13.05.2022 13:47:00
Extraktion nach NAI
  NAI-Verbindung           N17_800
  NAI-Applikation          PCT01

Extraktion der Datenbank
Name des SAP-Systems:      N17
Name des Mandanten:        800
Datenbanksystem:          ADABAS D
Name des Applikationsservers:  sapnqi03

135.350 definierte Tabellen in DD02L
17.138 inaktive Tabellen aus Branchenlösungen

Datenbankanalyse                27.04.2022 11:57:20

118.212 analysierte Tabellen
69.055 Tabellen ohne Inhalt
49.157 Tabellen mit Inhalt
805 davon nicht extrahierbare Tabellen
48.352 extrahierbare Tabellen
Keine doppelten Einträge zu Tabellen
  
```

```

13.05.2022                Dokumentation des Extraktionsprozess
-----
GESAMTERGEBNIS

```

Profil	relevant	aktiviert	extrahiert	validiert	1:1	Delta ERP
000001	9.231	9.231	7.661	7.661	7.441	220
000002	16.702	16.657	16.657	16.657	16.217	440
000003	2.838	2.838	2.838	2.838	2.178	660
000004	9.919	9.919	9.919	9.919	9.039	880
000005	7.086	7.086	7.086	7.086	5.986	1.100
000006	1.351	1.351	1.351	1.351	31	1.320
000007	1.211	1.211	1.211	1.211	329-	1.540
000008	4	4	4	4	1.756-	1.760
Gesamtsumme	48.342	48.297	46.727	46.727	38.807	7.920

```

80 % der relevanten Tabellen wurden vollständig extrahiert.
13.05.2022 13:47:00
  
```

PBS NAA: Implementation – Data Transfer

Example from project: data volumes and runtimes (excerpt)

	Anwendung	Läufe	Dauer(Sec)	Strukturen	Sätze	Filesize(Byte)	Beschreibung
	AC	16	357	68	87.602	175.266.822	Rechnungswesen Allgemein
	AII	14	388	109	15.123	216.524.271	Auto-ID Infrastructure
	AP	22	2.669	802	987.990	1.776.411.577	Applikationsplattform
	BC	92	136.434	6.809	879.701.728	160.242.027.776	Basis
... ..							
	XAP	15	409	99	46.004	174.664.603	Collaborative Cross Applications
	ZZ	31	5.223	1.236	13.285.299	4.991.969.143	?
SUMME	gültige Läufe	1.135	291.137	46.727	1078943608	307.150.327.189	
			3 T			286,056 GB	Umrechnung der Einheiten
META				46.727			
	METADATEN	8	8.002	40		62.237.183	Version 000001
SUMME	gesamt	1.143	299.139	46.767	1078943608	307.212.564.372	
			3 T			286,114 GB	Umrechnung der Einheiten

PBS NAA: Implementation – Alternative for Archive Data

Alternative procedure for very large archive data volumes (NAA-AS)
or when using SAP AS in legacy system

- providing ADK files in the S/4HANA system
- archive data access with NAA-AS:
display of archived data analog to SAP AS

PBS NAA: Implementation – Data Transfer

- ✓ completely
- ✓ validated
- ✓ documented
- ✓ comprehensive
- ✓ database data
- ✓ archive data



PBS NAA: Display and Evaluation

- Transactions/Reports
- Authorizations
- GDPR and GoBD
- Customer-specific Requirements

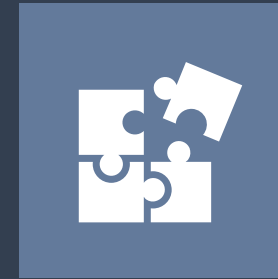
PBS NAA: Data Display and Evaluation



Standardized,
table-based,
transactional



Legal requirements
(GDPR, GoBD)



Flexible and individual



PBS NAA: Data Display and Evaluation

Live Demo

PBS NAA: Data Display and Evaluation



Standardized,
table-based,
transactional

Comprehensive catalog of standard transactions and reports analog to SAP standard

- accounting (FI, CO)
- logistics (PM, MM, SD, PP)
- human resources (HR) ...

Generic query tool for flexible, table-related evaluations

Authorization checks on different levels, embedded in SAP authorization concept

Access to linked documents

PBS NAA: Data Display and Evaluation



complies with legal requirements (GDPR, GoBD)

German GoBD

- Z1/Z2 access: Analyzing and reading legacy data in the evaluating S/4 system
- Z3 access with NAA DART: Creating data extracts for data extraction analog to SAP DART

GDPR

- Locking and protecting legacy data with NAA ILM

PBS NAA: Data Display and Evaluation



Flexible and individual

Easy adaptation of existing Z programs

- NAA scanner:
Automated conversion of database access to legacy data
- Programming interface – universally applicable
(function module and example programs)

Adaptation of selection/transaction/
report layout and variants analog to SAP standard

PBS NAA: Data Display and Evaluation

- ✓ minimal training
- ✓ sound authorization concept
- ✓ legal requirements (GDPR, GoBD)
- ✓ table-based display
- ✓ customer-specific tables and fields, implementation of specific requirements
- ✓ business context
- ✓ access to linked documents
- ✓ transactional data display

PBS NAA: Project Implementation Support

- implementation with PBS partners
- support services agreement
- software updates
- support hotline
- implementing individual requirements on project basis

PBS NAA: Costs

- Source system:
ERP ECC 6.x
SAP CRM, SRM and others on request
- Source system:
S/4HANA from 1610
- Licensing:
depending on the volume of extracted data (size of DB+ADK files/client)
and
number of SAP Named Users in the S/4 system
- Free test installation
- Inexpensive PoC

Summary

Cost saving:
SAP licenses and operating costs SAP legacy system

Decommission SAP systems:
Providing legacy data in S/4 from ERP systems to be decommissioned

Easy installation:
low resource requirement,
low administration effort, monitoring

Data analysis:
transactions/reports
ad hoc queries
Program API



Open Questions?

We will be happy to clarify open questions.

Call us under +49 6251/1740
or send us a short email to:
info@pbs-software.com

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