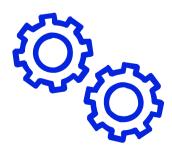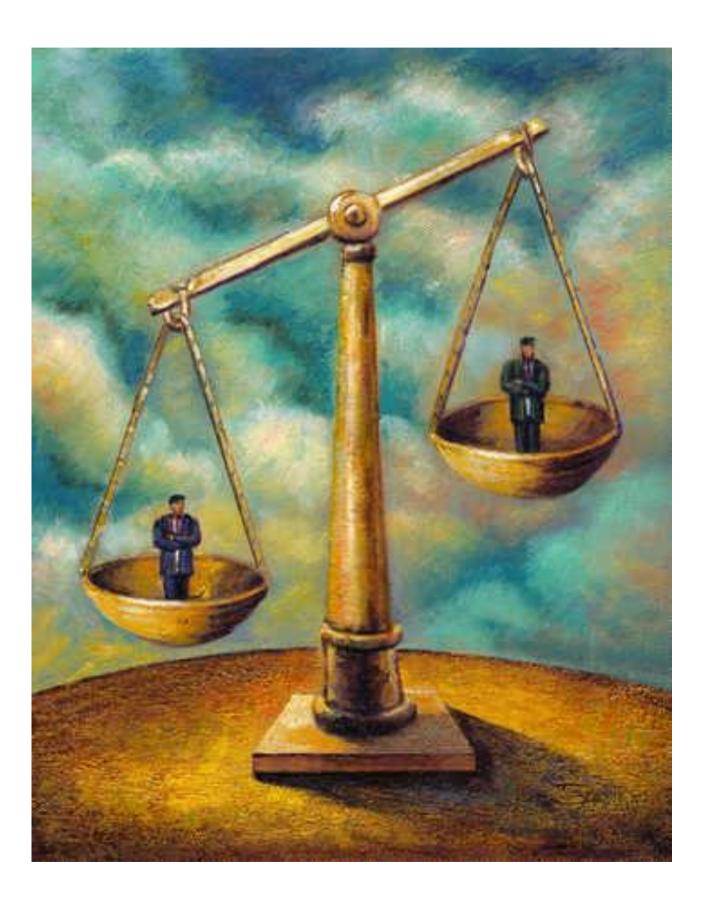# What We'll Cover

- The Balancing Act of Data Management

- Data Management Concepts

- Common challenges to retain / access data for compliance

- Supporting Tools to Access and Export Archive Data

- Recommendations to get Started

- Wrap-up

The Balancing Act of Data Management

IT Infrastructure

- Limited by storage / processing capacity

- Additional system resources add cost

- Increasing utilization is causing long run-times for standard reports

- Long lead times to meet audit extract requests

- Increased growth adds risks to future upgrades (ECC / SAP S/4HANA)

- Needs an archiving strategy to slow system growth

End User Expectations

- End users are concerned about maintaining data needed to work in their role

- I don't want to look in different systems to view current data and archive data

- Companies require full historic data sets to support open audits

- End users don't want a technical view to historic data

- Report / Query responses need to be timely and complete

Data Management Concepts

Concepts

- Data Archiving – The act of moving data from the online system to a long term storage system.

- Archive Object – A standard component of SAP environments; Defines the database objects, and corresponding programs, that must be processed together as a single business object. (structured by technical or functional area)

- Business Complete – An SAP term describing data that is not expected or required to be updated in the future. Standard archiving requires 'Business Complete' status of records to be archive-ready; a standard control to determine if data can be archived

- Residency period – The period of time that must elapse before data can archived

- Retention period – The complete period of time data must be retained for legal and governance reasons. After this period of time, data may be purged.

- Purge – Physically deleting obsolete data from the storage system and the corresponding SAP links

SAP Archive Objects
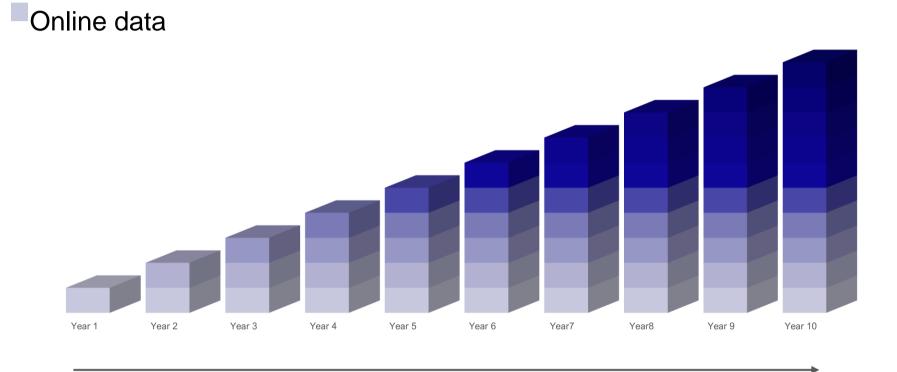
- Over 1,000 different objects are available depending on SAP version and Industry Specific modules (FI Documents, SD Invoices, CO Items, Purchase Orders...)
- SAP standard method for safely moving data out of the production database
- Example – FI_DOCUMNT archiving object (Financial documents) includes the following data from database tables:
  - ➢ Document header
  - ➢ Document segment accounting
  - ➢ Document segment control data
  - ➢ Posting procedures that depend on company codes
  - ➢ Document segment variable data
  - ➢ Document segment change data
  - ➢ Change documents
  - ➢ SAPscript texts

Common Data Growth Scenario

Without archiving

■ Online data

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year7 Year8 Year 9 Year 10
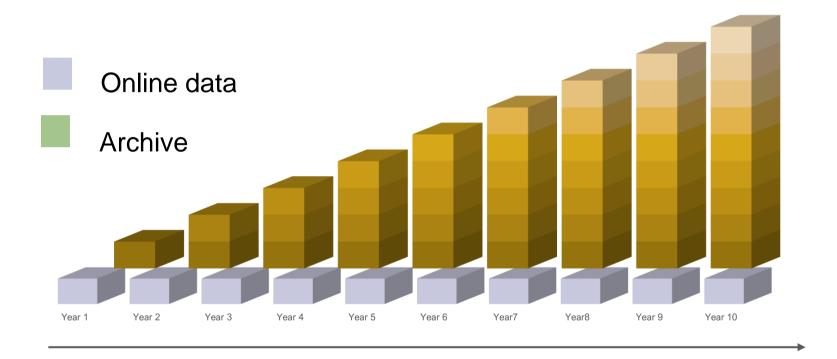
- Business growth can result in un-managed database growth
- Transaction and query performance / response times degrade over time
- Affects structured and un-structured data

With archiving

■ Online data

■ Archive

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year7 Year8 Year 9 Year 10

- Stabilizes database size
- Improves response time for business transactions and analytics / reports
- Reduce or avoid operation costs
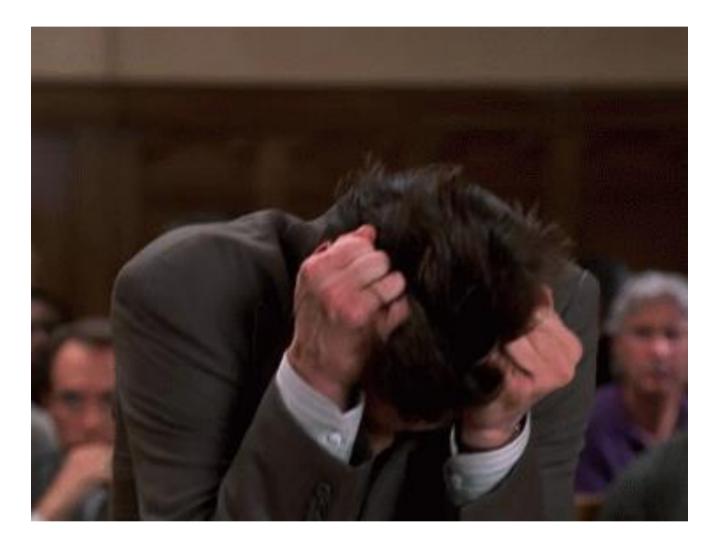
Goals of Data Management

- Reduce the workload for IT systems to process data

- Control or slow the growth of the SAP production database

- Avoid adding data to the production database where it's not functionally / technically necessary

- Safely migrate data from the production system to alternative storage through standard SAP data archiving functionality

- Provide simple seamless access to all data to ensure end-user satisfaction and reporting compliance
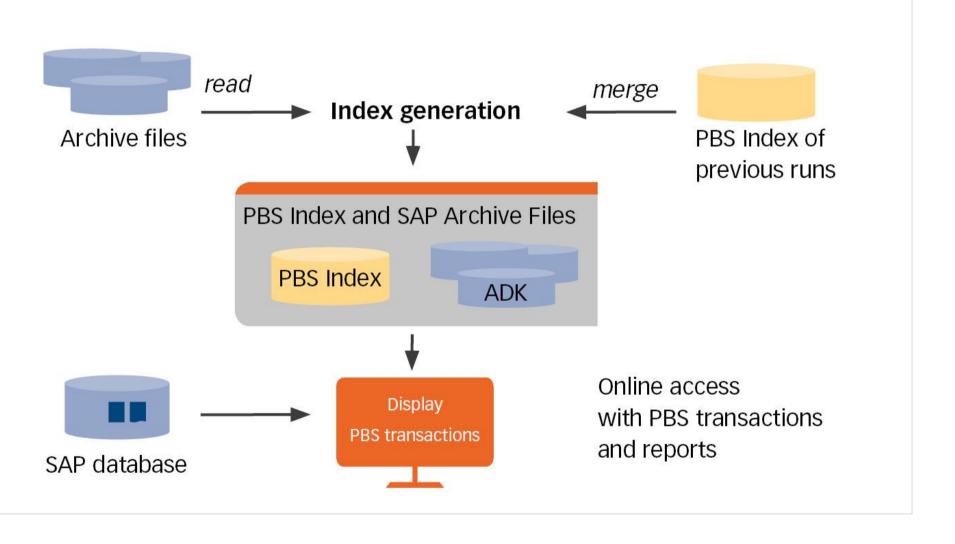
The Challenge: Why Doesn't Everyone Manage Their Data Volume with Archiving?

- End-users fear they will lose the needed business views of archived-data

- Our company has data retention policies that will not allow us to "delete" information from the database

- "We need detailed data retained for both real-time business transactions and historical reporting (including Audit and Compliance)"

- We don't have the resources with knowledge to do this correctly

- We tried archiving once, and the users didn't like the access options for archive data

PBS Archive Add Ons with SAP Standard Archiving

- PBS archive add ons utilize a lean model that integrates simply into the SAP archiving framework

- Provides comparable response times to archive data vs production data queries

- Supports access to archive data and indexes from cloud or on-premise storage

- Enables enhanced export functionality for combinations of production / archive data

PBS Archive Add Ons: Provide Immediate Benefits

- Users have access to archived data using familiar views

- A visual indicator on the SAP Transaction list / or Fiori Icon shows the end-user they can choose which data they want to access and evaluate:

  -- Use Online data only

  -- Use Archive data only

  -- Use Archive with Online data

- The complete document flow is maintained independent of archive status

- Data is easy to access regardless of status, allowing IT to enable a more aggressive archiving approach

Seamless Access

The CFI Module includes 32 archive enabled Transaction codes.

SAP Standard	PBS	Description
FBL1N	/PBS/FBL1N	Display vendor line items
FK10N	/PBS/FK10N	Balance display vendor
	/PBS/CFI_KLI	Vendor line items for account interval
FBL3N	/PBS/FBL3N	Display G/L account line items
FS10N	/PBS/FS10N	Balance display G/L account
	/PBS/CFI_SLI	G/L account line items for account interval
FBL5N	/PBS/FBL5N	Display customer line items
FD10N	/PBS/FD10N	Balance display Customer
FD11	/PBS/FD11	Customer account analysis
	/PBS/CFI_DLI	Customer line items for account interval
FB03	/PBS/FB03	Display accounting document
FB04	/PBS/FB04	Display document changes
FBU3	/PBS/FBU3	Display cross-company code transaction
MIGO	/PBS/MIGO	Display goods receipt
MBST	/PBS/MBST	Cancel material document
MR03	/PBS/MR03	Invoice verification
MB51	/PBS/MB51	Material document list
MB5L	/PBS/MB5L	List of stock values: balances
MB59	/PBS/MB59	Material document list

PBS software

PBS Archive Add ons – Usability

Through an additional parameter in the list displays, users decide which data is displayed and evaluated:

➢Combined display of archive and online data
➢Online data only
➢Or archive data only

Selection screen
/PBS/FBL1N

PBS-specific parameter to choose the data source

PBS Archive Add ons vs. SAP Transactions

SAP Standard FBL1N

/PBS/FBL1N

End user query selection..
- 1= DB + Archive
- 2= DB
- 3=Archive

PBS Archive Add ons – Usability

PBS Enhances SAP Fiori Apps with Archived Data Access

SAP Fiori Launchpad with PBS Apps

PBS App with access to real-time and archived data

Archive add on – Data Export Interface

PBS provides several options for the extraction of application data from SAP environments (typical audit needs). In addition to PBS archive add on specific extraction programs, there are utilites such as the **PBS Data Export Interface** (contained in the PBS CFI delivery):

The **PBS Data Export Interface** enables extraction of SAP application data into external files (AIS format). Archive and database data can be processed.
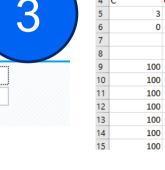
Data Export Interface – included in PBS CFI Add On

Data Export Interface – included in CFI

```
∨ 📁 Data Export Interface
    ∨ 📁 Export monitor
        · ⚙ /PBS/CFI_FR48 - Master data
        · ⚙ /PBS/CFI_FR49 - Transaction data
        · ⚙ /PBS/CFI_FR39 - Customizing data
        · ⚙ /PBS/CFI_FR43 - Master data changes
        · ⚙ /PBS/CFI_HSSM - Audicon Tax Audit HSS Extract Monitor
        · ⚙ /PBS/CFI_TXW - PBS Extract Monitor TXW structures (DART)
        · ⚙ /PBS/CFI_FR39N - Extraction table user-specifically
        ∨ 📁 Special extract reporting
            ∨ 📁 Financial accounting
                › 📁 Open/Cleared items
                · ⚙ /PBS/CFI_FR42 - FI document changes
                · ⚙ /PBS/CFI_FR53 - Balance Sheet /P+L Statement
            ∨ 📁 Other
                · ⚙ /PBS/CFI_FR56 - Material stock per posting date
                · ⚙ /PBS/CFI_FR54 - Asset history sheet
                · ⚙ /PBS/SCU3 - Customizing changes
    ∨ 📁 Export Viewer
        · ⚙ /PBS/CFI_Y90 - Administration
        · ⚙ /PBS/CFI_ALV - Reporting
    ∨ 📁 Administration
        · ⚙ /PBS/CFI_FR55 - Display export structures
        · ⚙ /PBS/CFI_POOL_ADMIN - Administration document infopool
        · ⚙ /PBS/CFI_XML - Generation XML file for Z3 data access
        · ⚙ /PBS/CFI_Y20 - Maximum file size Z3 access
        · ⚙ /PBS/CFI_FTP - FTP Download AIS Files
        · ⚙ /PBS/CFI_AIS_DEL - Delete AIS Files
        · ⚙ /PBS/CFI_FR59 - Maintenance table pool Z3 data access
        · ⚙ /PBS/CFI_FR60 - Maintenance path/user Z3 data access
        · ⚙ /PBS/CFI_FR61 - Activate additional TXW extracts
```

- Evaluate your data – Identify Risk Areas (free options)
  - Request the Data Volume Management Report from SAP
  - Quick Check Analysis from PBS Software

- Determine areas of largest growth and opportunities to address

- Evaluate End-User Requirements for Data Retrieval for archive data

- Determine alignment to future projects (ECC upgrade to SAP S/4HANA)

- Engage a partner that specializes in Data Volume Management

Wrap-up

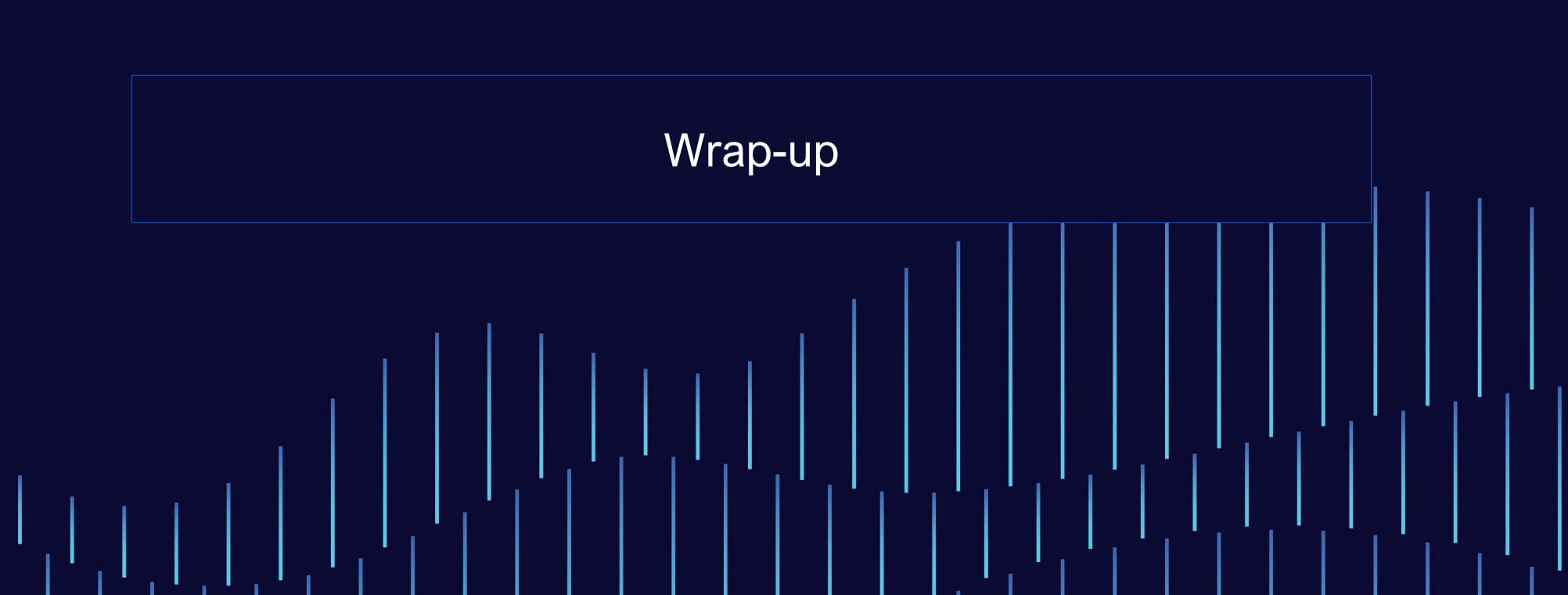## Key Points to Take Home

- Successful data management is a joint effort between functional data owners and IT

- Data Volume Management is essential to supporting business operations and data compliance

- End-user experience for accessing data is key to ensure adoption and successful change management

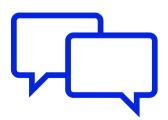- Data management is not a 1-time event. It's an ongoing practice in any ERP environment

Where to Find More Information

WWW.PBS-SOFTWARE.COM , https://www.linkedin.com/company/pbs-software-americas

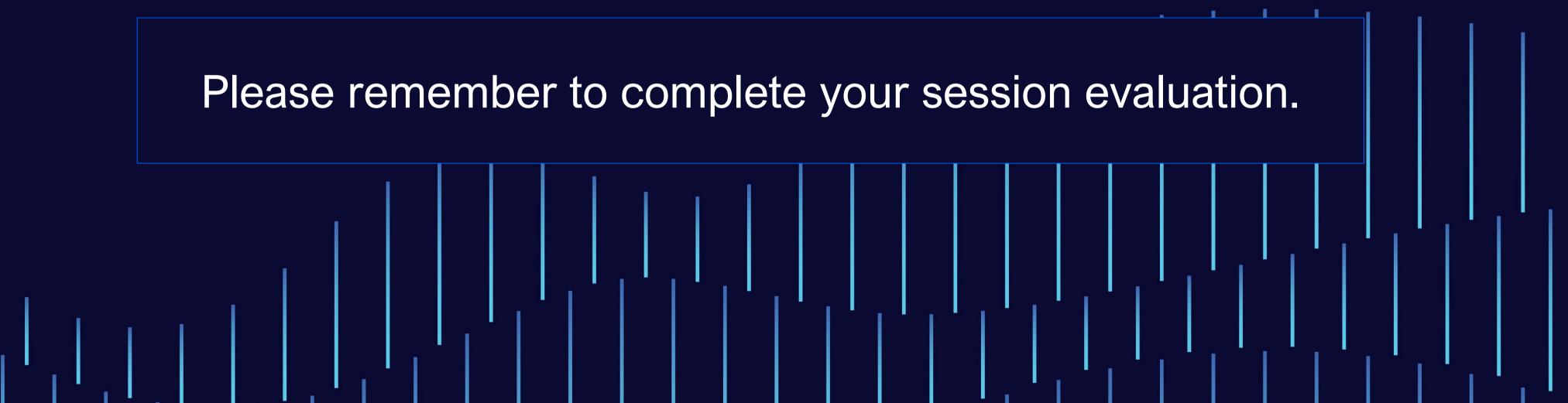https://sapinsider.org/vendor-showcase/pbs-software

E-Mail: contact@pbs-software.com

PBS
software americas

Thank you! Any questions?

Jason Stansberry

Jason.Stansberry@pbs-software.com

www.pbs-software.com

Please remember to complete your session evaluation.

SAPinsider

SAPINSIDER MEMBERSHIP MATTERS. YOU HAVE TO BE PART OF THE GLOBAL COMMUNITY.

Visit sapinsider.org