

# **Extend Analytics Content Access: Conditional and Secure SAC Publishing**





# Today's Session

## *Key Topics*

- **Conditional Bursting**
- **Securing & Encrypting Content**
- **Instance Archival - Governance**
  
- **Q&A – see webinar console**





## *Today's Presenters*



**Peter Warren**

*Account Manager*  
APOS



**Fred Walther**

*Senior Solution Consultant*  
APOS

## Who is APOS?

- Formed in 1992
- Enabling BI platform management, administration, migration, governance and compliance
- Simplifying, automating, extending SAP BusinessObjects and SAP Analytics Cloud
- Strategic SDK development and consulting
- Hundreds of customers globally





# APOS



**SAP  
BusinessObjects**



**Hybrid BI**



**SAP  
Analytics Cloud**





## HOUSEKEEPING



You will have  
access to the  
**slides** via  
email



You will get  
the **recording**  
within 24  
hours



Tell us how  
we did in the  
**survey**



# SAC Analytics





# Extend Analytics



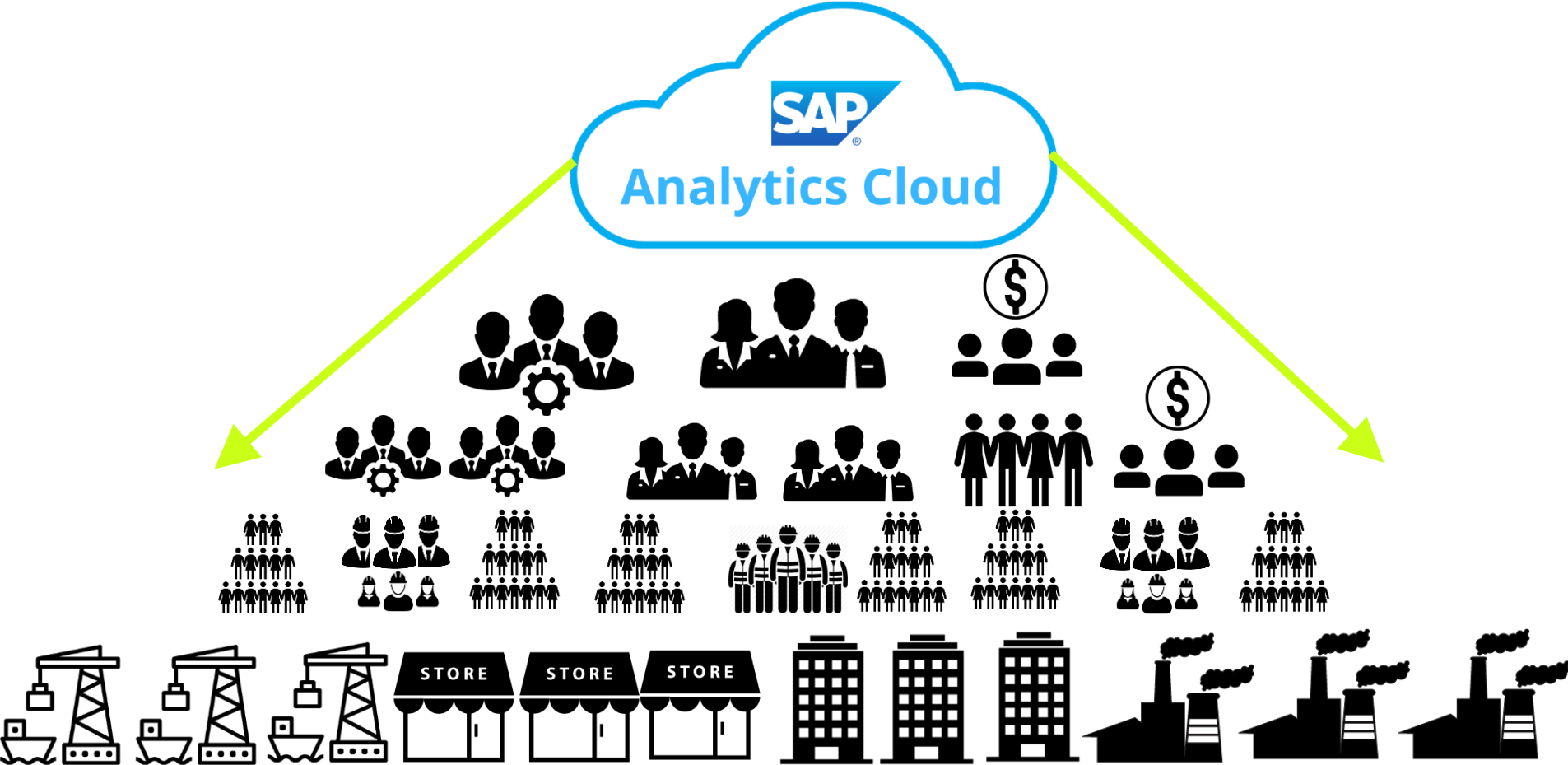


# Extend Analytics



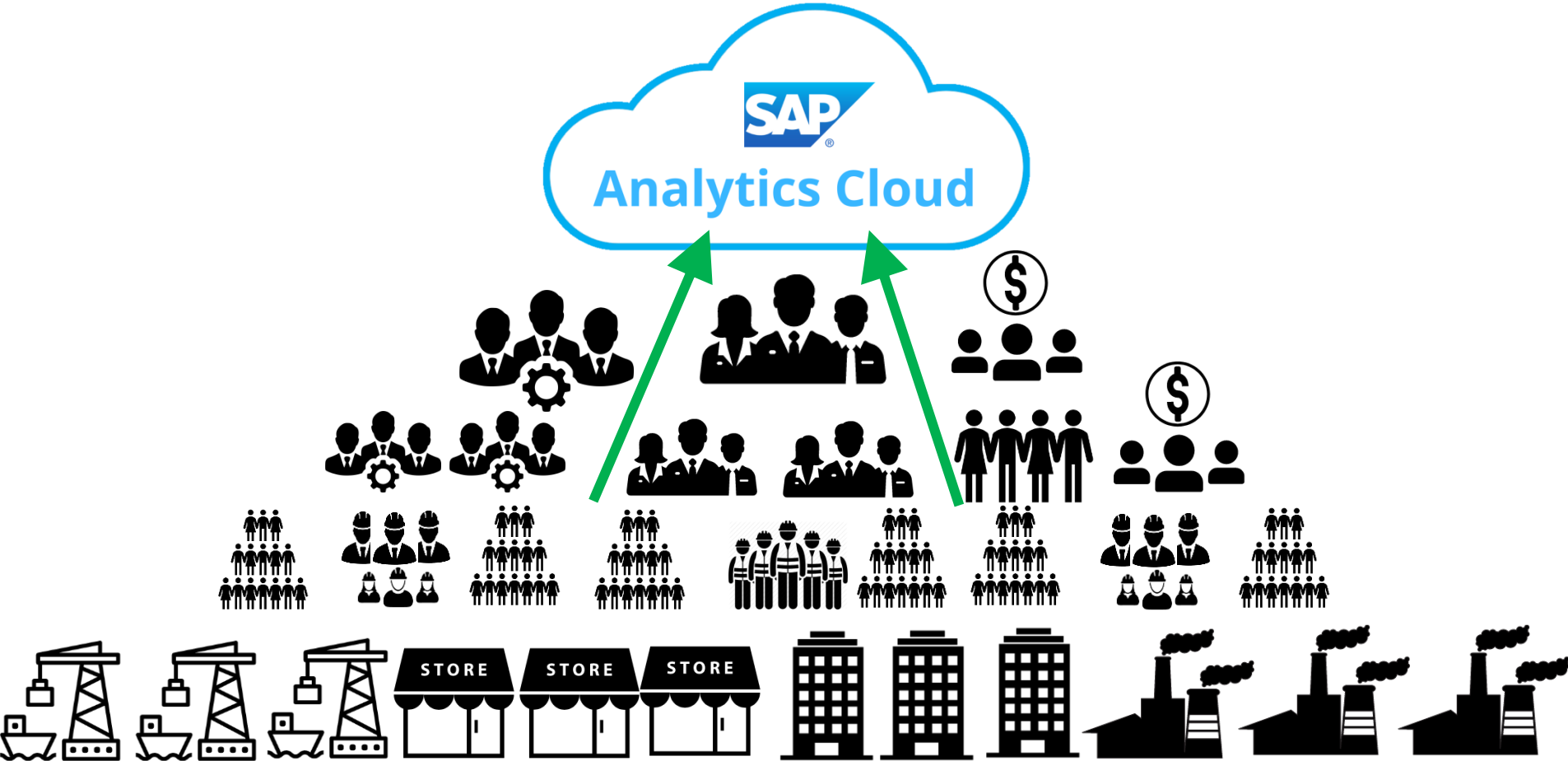


# Extend Analytics



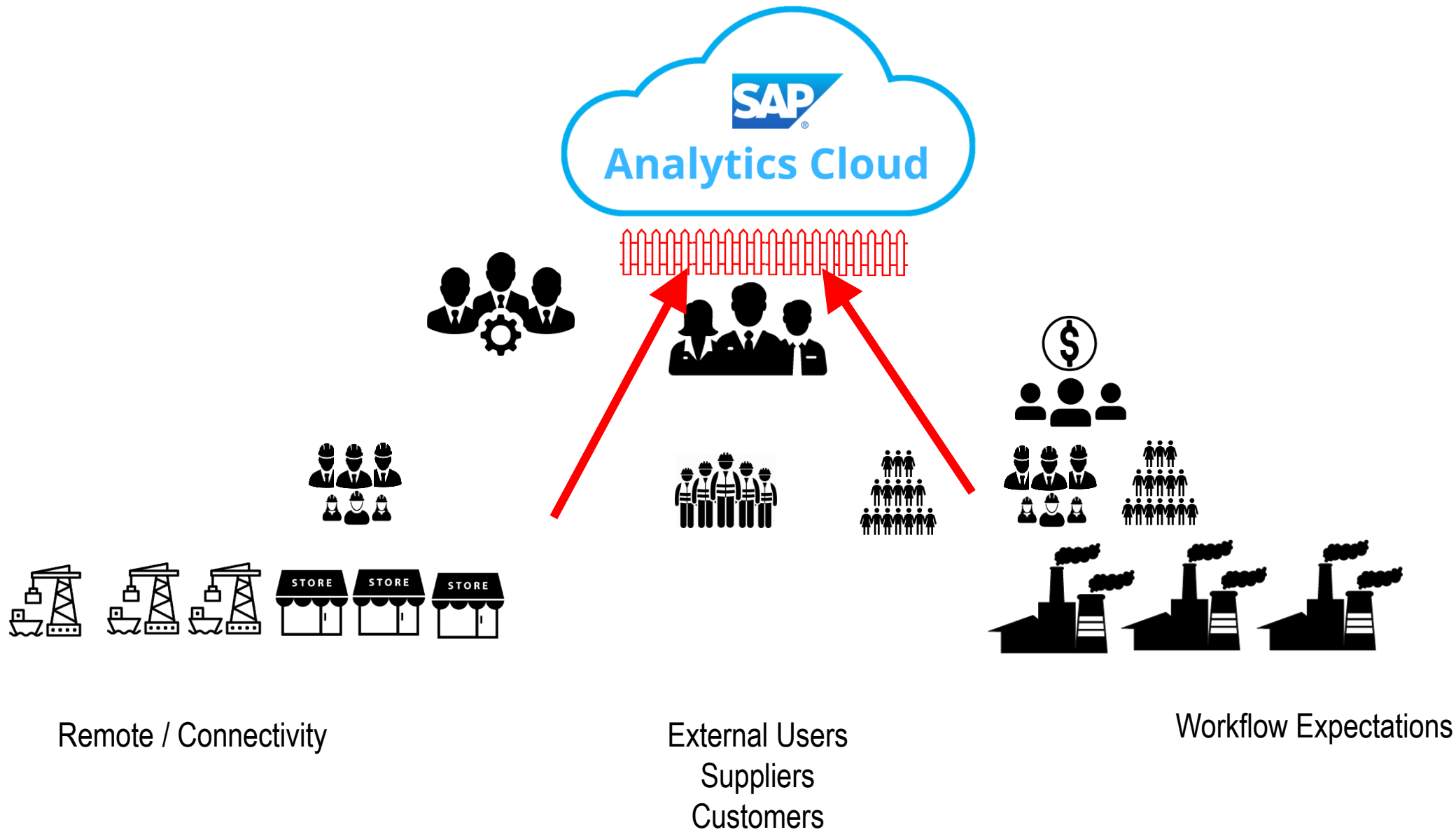


# Extend Analytics





# Extend Analytics



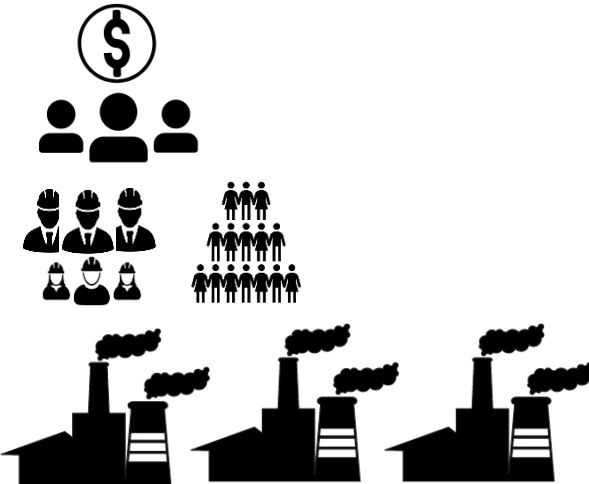


# Extend SAC Analytics



Remote Workforce

External Users  
Suppliers  
Customers



Workflow Expectations



# Extend SAC Analytics







# **EXTEND**

## **SAP ANALYTICS**





**Fred Walther**  
Senior Solution Consultant  
APOS



# Extend Analytics Content Access

## APOS 3-Part Webinar Series

APOS WEBINAR



*Extend Analytics Content Access with  
Bursting & Publishing*

APOS WEBINAR



*Extend Analytics Access with  
Distribution of Tailored Content*



# Extend SAC Analytics - Recap



## Webinar 1 - Extend Analytics Content Access with Bursting & Publishing

1. Bursting personalized content to end recipients
  - Each user gets just their data
2. Customizing formats and destinations for each recipient
  - Each user gets the document in their required format
3. Consolidating content from multiple sources into a single document
  - Information from multiple sources is brought together



# Extend SAC Analytics - Recap



## Webinar 2 - Extend Analytics Access with Distribution of Tailored Content

1. Selective Page Distribution
  - Specific information from selected pages is chosen for each recipient
2. Advanced Formats and Destinations
  - Templates can customize the output so it's always in the correct format for each recipient
3. Scheduling of Story Bursting
  - Story Bursting happens when and where the recipients need



# Conditional and Secure SAC Publishing



Conditional Bursting

Securing Sensitive Content

Instance Archival for Governance





# Conditional and Secure SAC Publishing



## Conditional Bursting

- Only the latest data should be used to deliver SAC Story
- Changing business conditions require notification of team
- KPI thresholds may have been met or exceeded





# Conditional and Secure SAC Publishing



## Conditional Bursting

- Users are responsible for high volumes of information
- Make it easy for user experience
  - Don't send outdated information
  - Highlight the important data

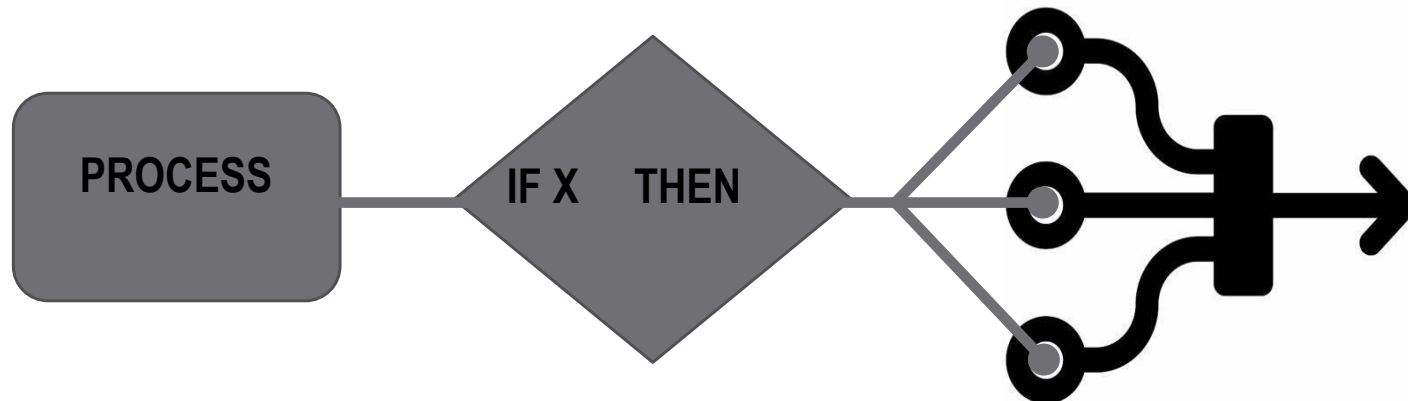




# Conditional Bursting – Data Accuracy



- Users should only receive data when accurate
- Only send burst when data is up to date
  - Database update process needs to be completed
  - Don't sent faulty information
  - Distracting to users
  - Loss of trust in reports by users

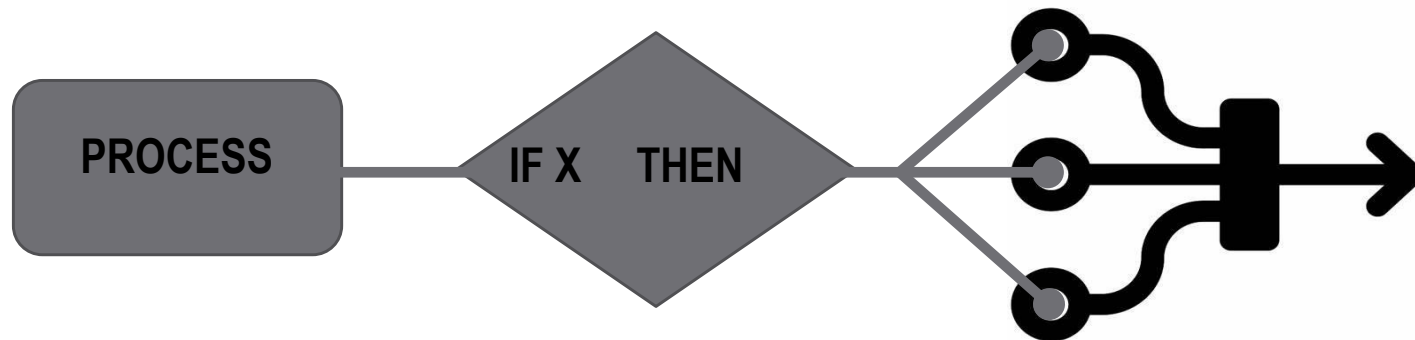




# Conditional Bursting – Targeted Information



- Users only receive data when certain business conditions exist
  - Reduces the amount of information to be manually monitored
  - Highlights conditions that need attention without manually tracking values
- Only send burst when pre-determined threshold data values exist
  - Focuses users attention
  - Reduces or removes time related to manual tracking





# Conditional Bursting



Schedule Publication

Share Story by E-mail

With access to SAP Analytics Cloud, you can share a story with users or teams as well as external users.

\*Name:

DB2 Date D

Start Date:

Mar 31, 2021

+ Add Recurrence

Check Availability

File Type

PDF

\*Subject

Enter email

Message

Include an attachment

Recurrence Settings

Recurrence Pattern:

Day

Hour

Day  Day(s)

Week

First Occurrence:

Mar 31, 2021 - 10:46 AM

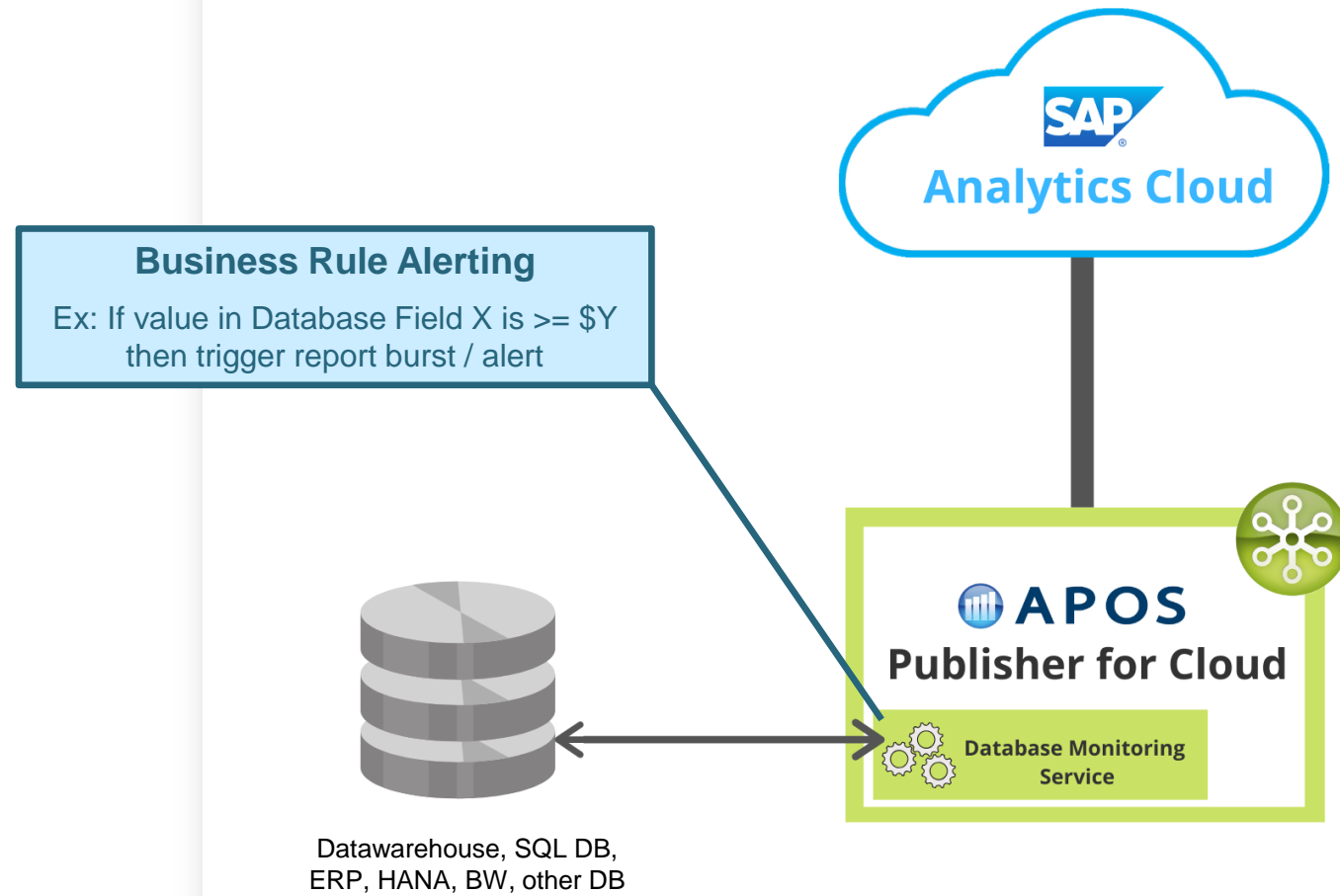
End Recurrence By:

No End Date

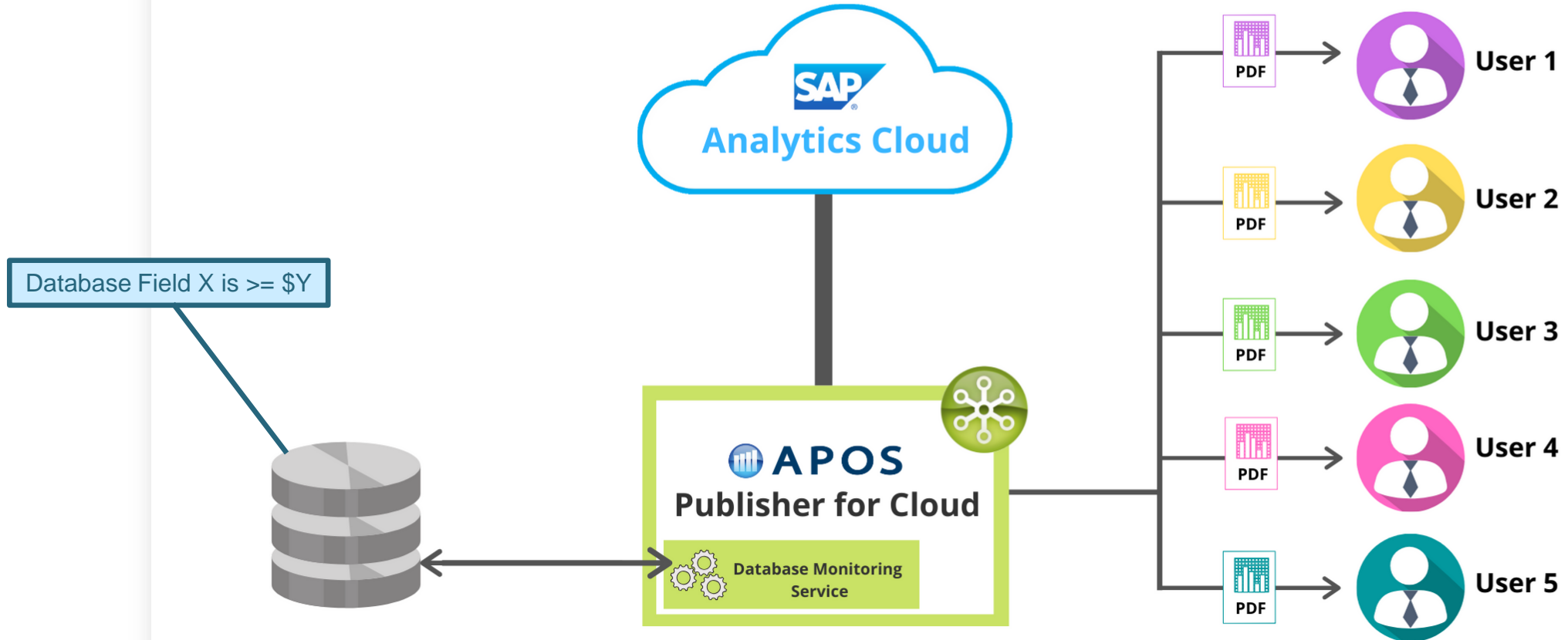
OK Cancel

Only time-based scheduling is available in Analytics Cloud.











# Scheduling – Conditional Bursting



Profile Name:

Database Type: ☒ MS SQL ☐ Oracle (SID) ☐ Oracle - (Service\_Name)  
☐ SQL Anywhere ☐ IBM DB2 ☐ SAP Hana ☐ ODBC ☐ BW

Server Name:

Database Name:

Port:  Timeout (0 - unlimited):

User Name:

Password:

SQL Server Authentication Type (not used for other database types)  
☒ Windows Authentication ☐ SQL Server Authentication

Table Prefix:

Loop Size:  Decimal Separator Character:



# Scheduling – Conditional Bursting



Profile Name:

Database Type: ☒ MS SQL ☐ Oracle (SID) ☐ Oracle - (Service\_Name)  
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Server Name:

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User Name:

Password:

SQL Server Authentication Type (not used for other database types)  
☒ Windows Authentication ☐ SQL Server Authentication

Table Prefix:

Loop Size:  Decimal Separator Character:

Alert Name:

Database Profile:

Select SQL:

Alert Type Settings ☒ Notification Settings ☐

**Alert Runtime**

☐ Only Alert During Specified Runtime Window

Runtime Starts:  Runtime Ends:

**Alert Type**

☐ Alert if the specified sql select statement results in a zero record count

☒ Alert if the specified sql select statement results in a record count greater than:

☐ Only alert if the results are different than the previous cycles results



# Scheduling – Conditional Bursting



Profile Name:

Database Type: ☒ MS SQL ☐ Oracle (SID) ☐ Oracle - (Service\_Name)  
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Loop Size:  Decimal Separator Character:

Alert Name:

Database Profile:

Select SQL:

Alert Type Settings **Notification Settings**

**Alert Runtime**

☐ Only Alert During Specified Runtime Window  
Runtime Starts:  Runtime Ends:

**Alert Type**

☐ Alert if the specified sql select statement results in a zero record count  
☒ Alert if the specified sql select statement results in a record count greater than:   
☐ Only alert if the results are different than the previous cycles results

☐ Use SNMP Notification  
SNMP Profile:   
☐ Include the following number of records in the snmp message

**Action**

☒ Exec Script Profile:



# Scheduling – Conditional Bursting



Profile Name:

Database Type: ☒ MS SQL ☐ Oracle (SID) ☐ Oracle - (Service\_Name)  
☐ SQL Anywhere ☐ IBM DB2 ☐ SAP Hana ☐ ODBC ☐ BW

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☐ Use SNMP Notification  
SNMP Profile:   
☐ Include the following number of records in the snmp message

**Action**

☒ Exec Script Profile:

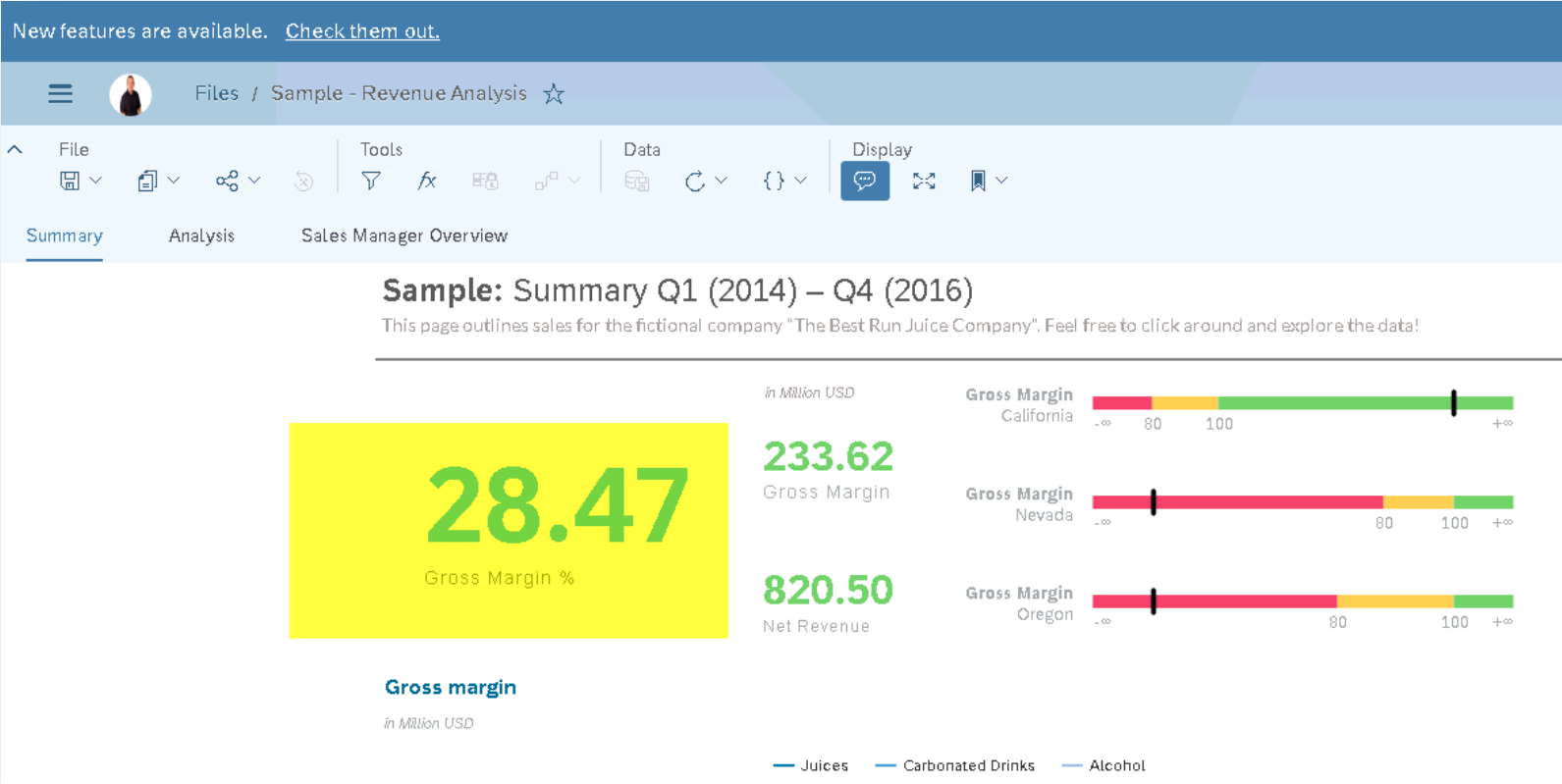
```
BurstSettings_BW Burst.txt - Notepad
File Edit Format View Help
<Burst>
<UserName>SAC User Name</UserName>
<Url>https://SAC_URL</Url>
<BurstDefinition>Your_Bursting_Definition</BurstDefinition>
<LogPath>C:\Temp\BurstLogForBW.txt</LogPath>
<ExitOnCompletion></ExitOnCompletion>
</Burst>
```



# Scheduling – Conditional Bursting



SAC Stories sometimes contain critical business KPIs that fluctuate on a regular basis





# Scheduling – Conditional Bursting



## Multiple options for conditional bursting

- Execution of the bursting definition
- Send alerts by email
- Send alerts to 3<sup>rd</sup> party SNMP systems
- Send alerts to Windows Event Log

APDS Insight Admin - DB Monitor Alert Setup

### Alert Settings

Alert Name:

Database Profile:

Select SQL:

---

Alert Type Settings | **Notification Settings**

#### Notifications

☒ Use Windows EventLog

☒ Use SMTP Notification

SMTP Profile:

☐ Include the following number of records in the email message

☒ Use SNMP Notification

SNMP Profile:

☐ Include the following number of records in the snmp message

---

#### Action

☒ Exec Script Profile:



# Use Case examples - Conditional Bursting



- A multi-national food supplier needed to execute bursting of SAC Stories when the data in their BW system exceeded threshold values.
- Publisher for Cloud enables tracking of targeted values to only push reports to defined users when commodity values and inventory values drop below a specific level.





# Conditional and Secure SAC Publishing



## Securing Sensitive Content

- Some stories contain sensitive data which needs additional protection
- Data must be received in secure manner





# Secured Content



- Sensitive data needs additional protection
  - Financial information shared internally
  - Order information sent to supplier or partner
  - Patient information
  - Employee information





# Securing Sensitive Content



Export Story As...

File Type

PDF

Page Layout / Settings

**General Settings**

Page Range

☒ All

☐ Range:

☐ Include Report pages in export (Beta) [i](#)

☐ Enable export in the background [i](#)

☒ Insert Appendix

**Batch Exporting**

☐ Batch export by Story Filter [i](#)

Select Existing Filter

Schedule Publication

Share Story by E-mail

With access to SAP Analytics Cloud, you can share a story with users or teams as well as external users.

\*Name:

Start Date:

[📅](#)

[+ Add Recurrence](#)

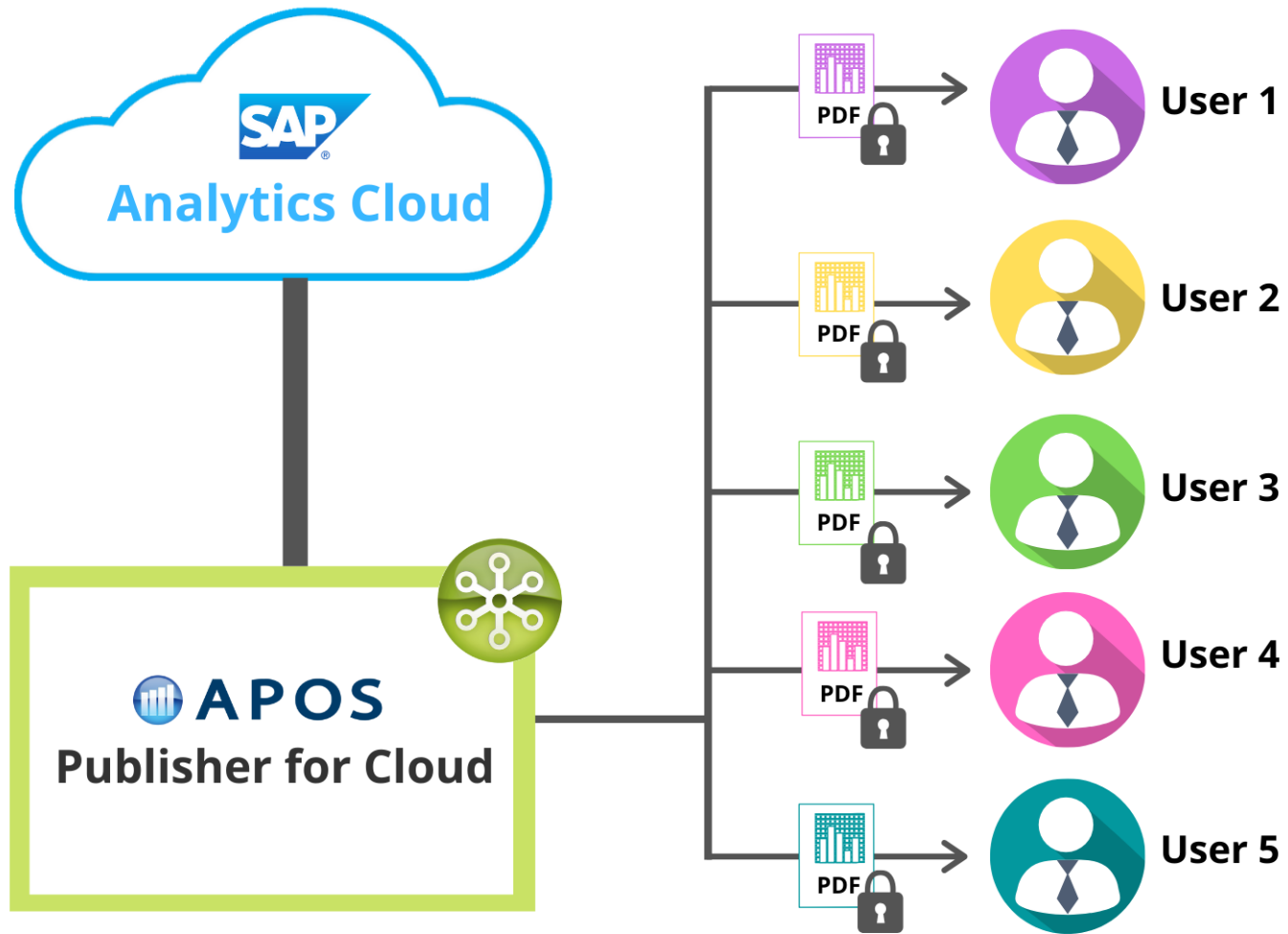
[Check Availability](#)

File Type

PDF

While Analytics Cloud allows you to export or schedule, there is no capability of securing the documents.







# Securing Sensitive Content



Distribute Empty Data:	Yes	+			
Zip Documents:	Yes	+	Zip Password:	***	+
Document Password:		+	Edit Password:	****	+
PDF Options:		+			

APOS Publisher for Cloud allows zipping of the story output, along with password protection of the zip file.



# Securing Sensitive Content



Distribute Empty Data:	Yes	+	
Zip Documents:	Yes	+	Zip Password: ***
Document Password:		+	Edit Password: ****
PDF Options:		+	

The document itself can also be password protected, adding an extra layer of security to sensitive data.



# Securing Sensitive Content



Interface for securing sensitive content during bursting to PDF format.

Options and settings:

- Distribute Empty Data: Yes
- Zip Documents: Yes
- Document Password: [Empty field]
- PDF Options: [Expanded menu]
- Zip Password: [Empty field]
- Edit Password: [Empty field]

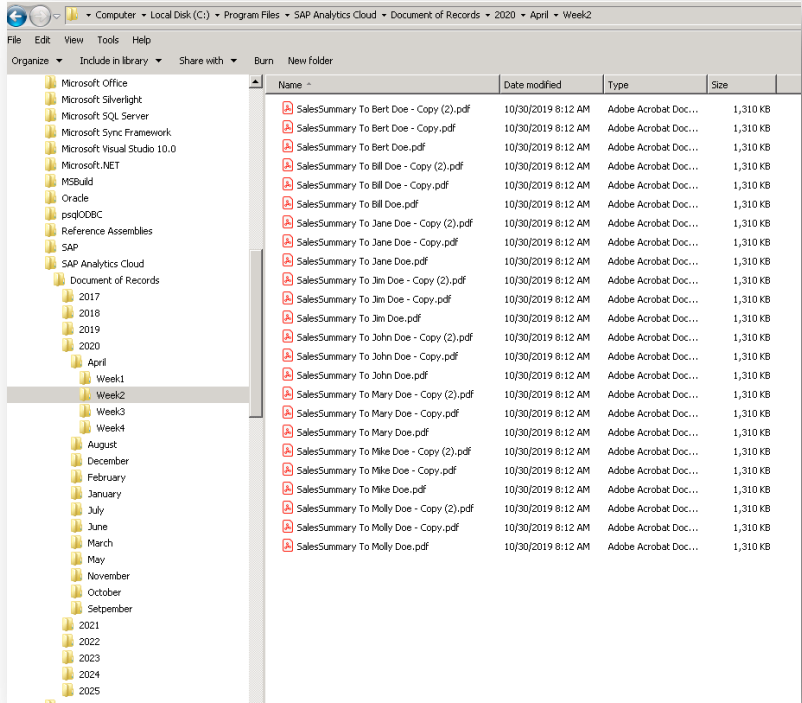
The PDF Options menu is expanded, showing the following options:

- ☒ Print
- ☐ Edit
- ☐ Copy
- ☐ Notes

When bursting to PDF format, further options can be enabled or disabled to keep the data secure.



# Securing Sensitive Content



FTPS and secure network folders are also available as locations for bursting your sensitive data.



# Use Case Examples - Securing Sensitive Content



## Some Typical Examples of Secure Data Distribution

- Bursting secure sales commission reports to sales reps
- Distribution customer order confirmations
- Distributing patient information to physicians and clinicians, protecting any PHI data





# Conditional and Secure SAC Publishing



## Report Archiving

- Many organizations need to keep a history of reports
- Stored reports act as Documents of Record





# Report Archiving

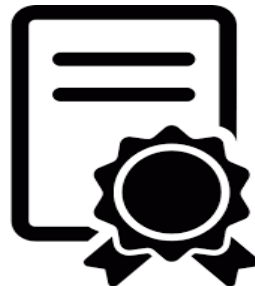


- Historical archive of reports for operational purposes
  - Future comparisons, management, quality controls
  - Order history, statements, financial status, etc.
- Documents of record for audit purposes and regulatory compliance
  - Auditor – internal & external
  - Certifications – ISO, etc.
  - Regulatory - Sarbanes-Oxley, HIIPA, etc.

## Operations Management



## Certification



## Auditors



## Regulators





# Report Archiving

While Analytics Cloud can export story content, there is not any easy way to create documents of record for internal governance or regulatory compliance, especially for individual departments, divisions, or users.



Export Story As...

▼ File Type

PDF ▼

▼ Page Layout / Settings

**General Settings**

Page Range

☒ All

☐ Range:

☐ Include Report pages in export (Beta) ⓘ

☐ Enable export in the background ⓘ

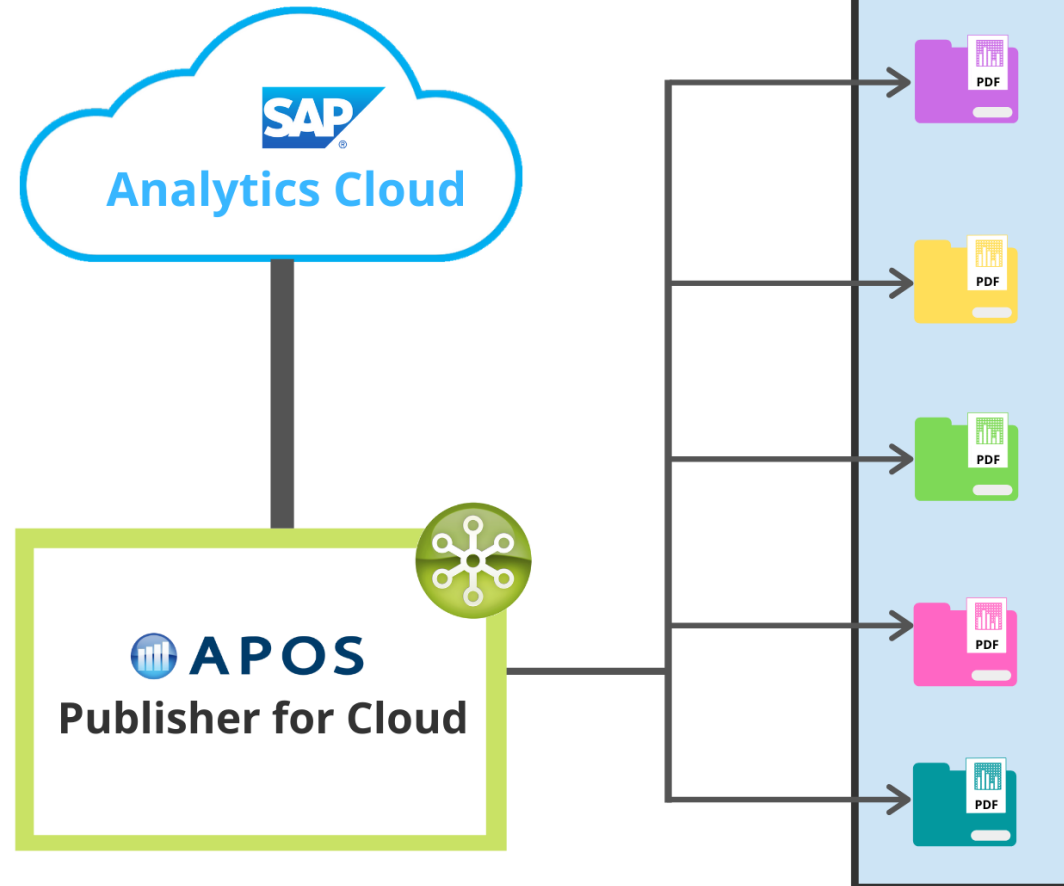
☒ Insert Appendix

**Batch Exporting**

☐ Batch export by Story Filter ⓘ

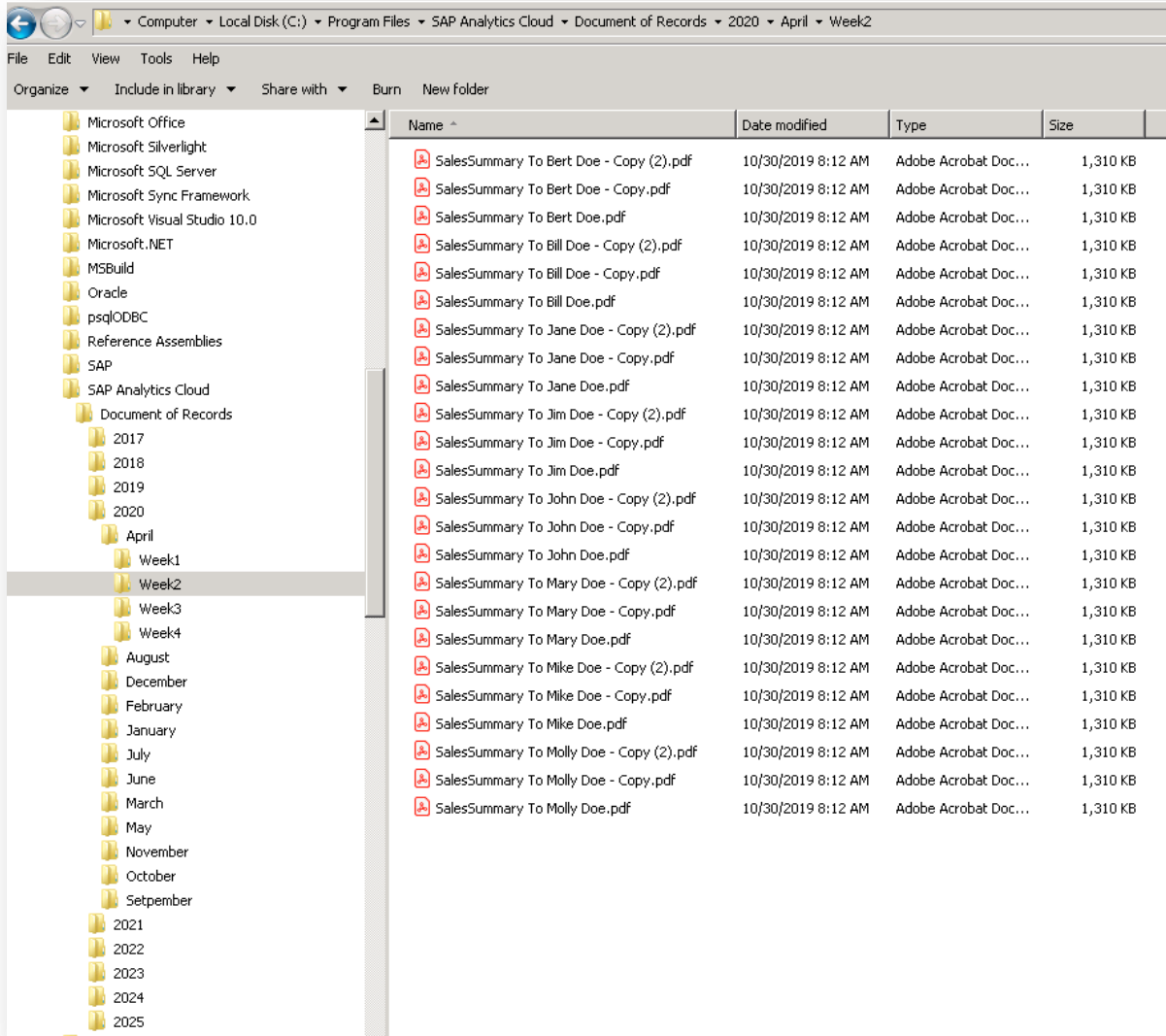
Select Existing Filter







# Report Archiving



APOS Publisher for Cloud can easily export content to a secure network location, creating folders as necessary to store the documents of record.



# Report Archiving



ComputerLocal Disk (C:)Program FilesSAP Analytics CloudDocument of Records2020AprilWeek2

FileEditViewToolsHelp

OrganizeInclude in libraryShare withBurnNew folder

Microsoft Office  
Microsoft Silverlight  
Microsoft SQL Server  
Microsoft Sync Framework  
Microsoft Visual Studio 10.0  
Microsoft.NET  
MSBuild  
Oracle  
psqlODBC  
Reference Assemblies  
SAP  
SAP Analytics Cloud  
Document of Records  
2017  
2018  
2019  
2020  
April  
Week1  
Week2  
Week3  
Week4  
August  
December  
February  
January  
July  
June  
March  
May  
November  
October  
Setpember  
2021  
2022  
2023  
2024  
2025

Name	Date modified	Type	Size
SalesSummary To Bert Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	1,310 KB
SalesSummary To Bert Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Bert Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Bill Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Bill Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Bill Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jane Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jane Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jane Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jim Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jim Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Jim Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To John Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To John Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To John Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Mary Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Mary Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Mary Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Mike Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
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SalesSummary To Molly Doe - Copy (2).pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Molly Doe - Copy.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	
SalesSummary To Molly Doe.pdf	10/30/2019 8:12 AM	Adobe Acrobat Doc...	

WeeklySalesReport.pdf (SECURED) - Adobe Acrobat Reader DC

File Edit View Window Help

Home ToolsWeeklySalesReport...

APOS Sample Sales Report

APOS

Location (Sales Revenue, Gross Margin)

Stores in the United States

LEGENDS

2000km

Est. HERE, Garmin, NGA, USGS | Est. HERE esri

Sales Revenue per City

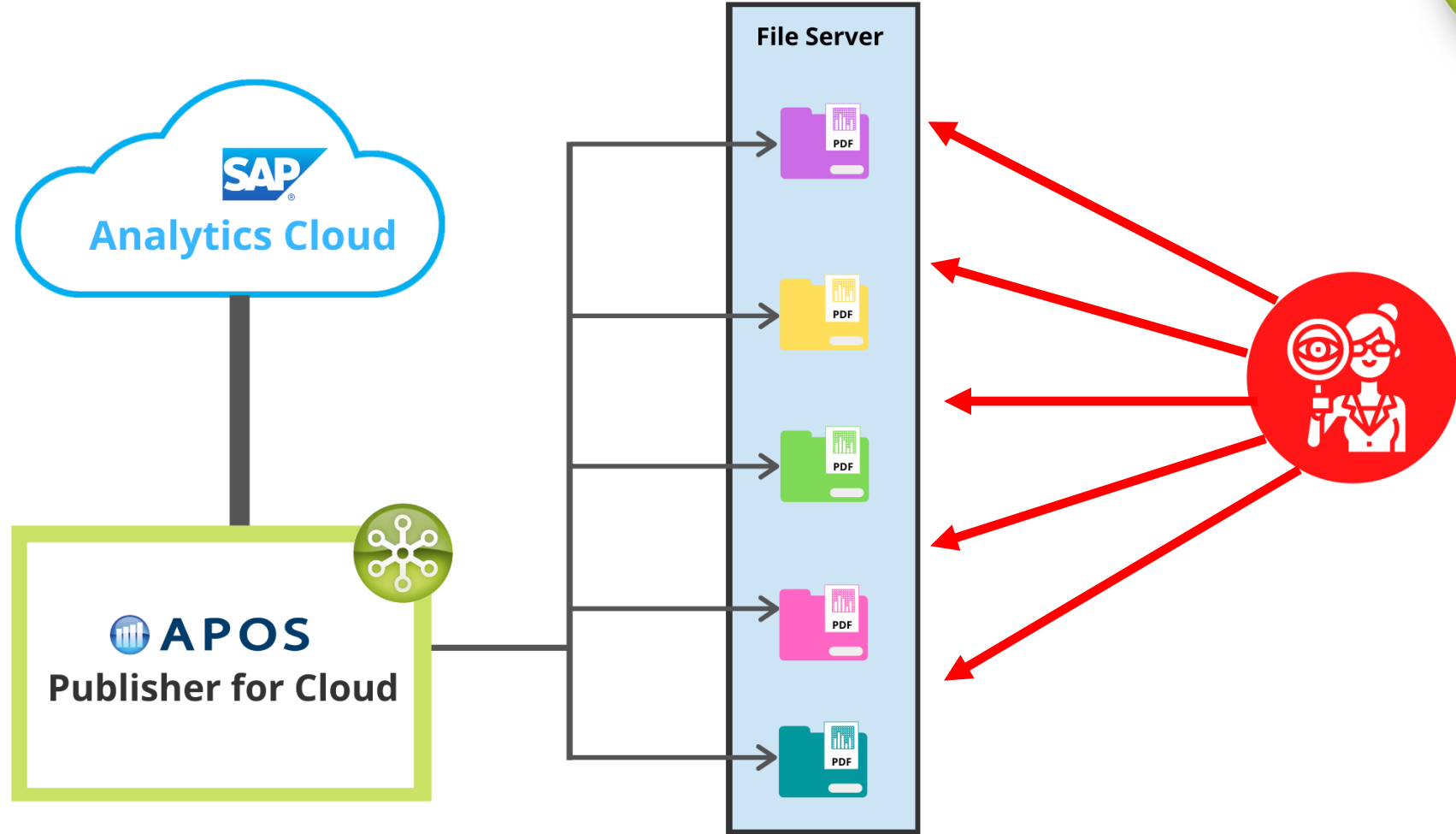
Quantity Sold per Product

in USD | Quantity\_Sold

Household 468,272.00



# Report Archiving - Auditor Ready Documents





# Use Case example - Report Archiving



## Different types of businesses have different requirements

- A financial organization is required to keep multiple years of data to comply with SOX regulations
- A healthcare company needs to ensure that reports with PHI data are kept securely for the regulation amount of time





# APOS Solutions for SAP Analytics Cloud



## APOS Live Data Gateway

- High-performance live data connectivity
- Virtualized, governed, self-service connectivity
- Connect to Relational databases
- Connect to OLAP data sources
- Connect to Cloud data environments
- Connect to SAP Application data

## APOS Publisher for Cloud

- Automate secure information delivery
- Deliver timely information
- Create a flexible messaging environment
- Simplify administration
- Use multiple formats & destinations
- Burst stories with multiple filters
- Burst conditionally
- Collate stories
- Personalize PowerPoint bursting



## APOS Insight for Cloud

Monitor – tracking & alerting for:

- SAC story performance
- System response measures

Validation automated comparisons across SAC versions of:

- SAC story data
- SAC story performance
- SAC story structure

Impact analysis – granular auditing of SAC story structure metadata

## APOS Semantic Layer Migration

- Capture SAP BI Universe data connection and data modelling logic
- Project-based, wizard-driven interface
- Scan your SAP BI content for relevant data connections
- Harmonize SAP BI and HANA data modelling throughout Hybrid BI
- Translate SAP BusinessObjects modelling to SAP HANA Calculation Views
- Translate SAP BusinessObjects modelling to a unified semantic layer





# APOS Solutions for SAP BusinessObjects



## APOS Insight

### BI System Auditing

- System Inventory
- Security Analysis
- System Usage Analysis
- Report Impact Analysis

### BI Report Testing

- Automated Report Testing
- Regression Testing
- Validation of Report Data
- Report Performance Testing

### BI System Monitoring

- Advanced System Monitoring
- Operating Environment Monitoring
- Database Monitoring
- Process Monitoring

### BI Query Surveillance

- Real-time BI Query Monitoring
- Query Performance Alerting & Auditing
- Query Intervention; Remote Cancelling
- Sensitive Data Audit



## APOS Administrator

### Object Management

- Bulk Security Management
- Bulk Settings Management
- System Objects Promotion
- Connections Maintenance

### Schedule Management

- High-volume schedule management
- Multiple schedule properties editing
- Grid scheduling interface
- Repeatable scheduling templates

### Instance Management

- Manage entire instance inventory
- Granular instance search
- Stop, pause, release, reschedule
- Rapid recovery to failed schedules

### Web Intelligence Migration

- Bulk conversion of Universes from UNV to UNX
- High-Volume Repoint Web Intelligence reports
- Success validation
- Controlled, project-based workflow

## APOS Storage Center



- System Backup
- Content Archiving
- Content Versioning
- Selective Restoration
- Automated System Clean Up

## APOS Publisher

- Systematic Content Delivery
- Advanced Document Bursting
- Enhanced Content Distribution
- Security and Encryption
- Statement Generation





# Upcoming Webinars



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**JOIN THE SAP ANALYTICS CLOUD GROUP TODAY!**



Join easily by searching "SAP Analytics Cloud (SAC)" & Request to Join on LinkedIn!



# QUESTIONS?

**Please enter your questions in the Q&A panel.**





# Thank You!

## Get in Touch

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