

# Hyperion Focus 17

## Data management in Oracle EPM Cloud

Serge Kpossou, Gavin Hogge (AMOSCA)



# Agenda

- Hybrid IT (Mixed Cloud and on-premise environments) – Why does it matter ?
- Oracle cloud integration options
  - » Evaluating available options to transfer & manage metadata & data in Hybrid environments
- Hybrid Cloud integration Scenarios
  - » PBCS/FCCS ⇔ On Premise ERP, EPM Systems
  - » PBCS/FCCS ⇔ PBCS/FCCS
  - » OAC ⇔ On Premise ERP, EPM/Essbase Systems
- Recommendations & Conclusion

# Managing data in Hybrid environments

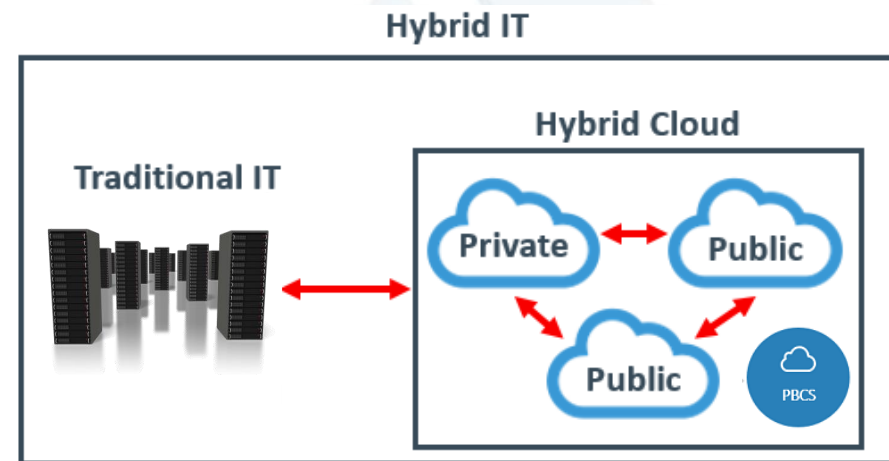


The Key Success factor of a Hybrid environment is efficient data & metadata integration

- “Hybrid IT” enables development, execution and governance of integration flows connecting any combination of on premises and cloud based processes, services, applications, and data within individual or across multiple applications

-Gartner

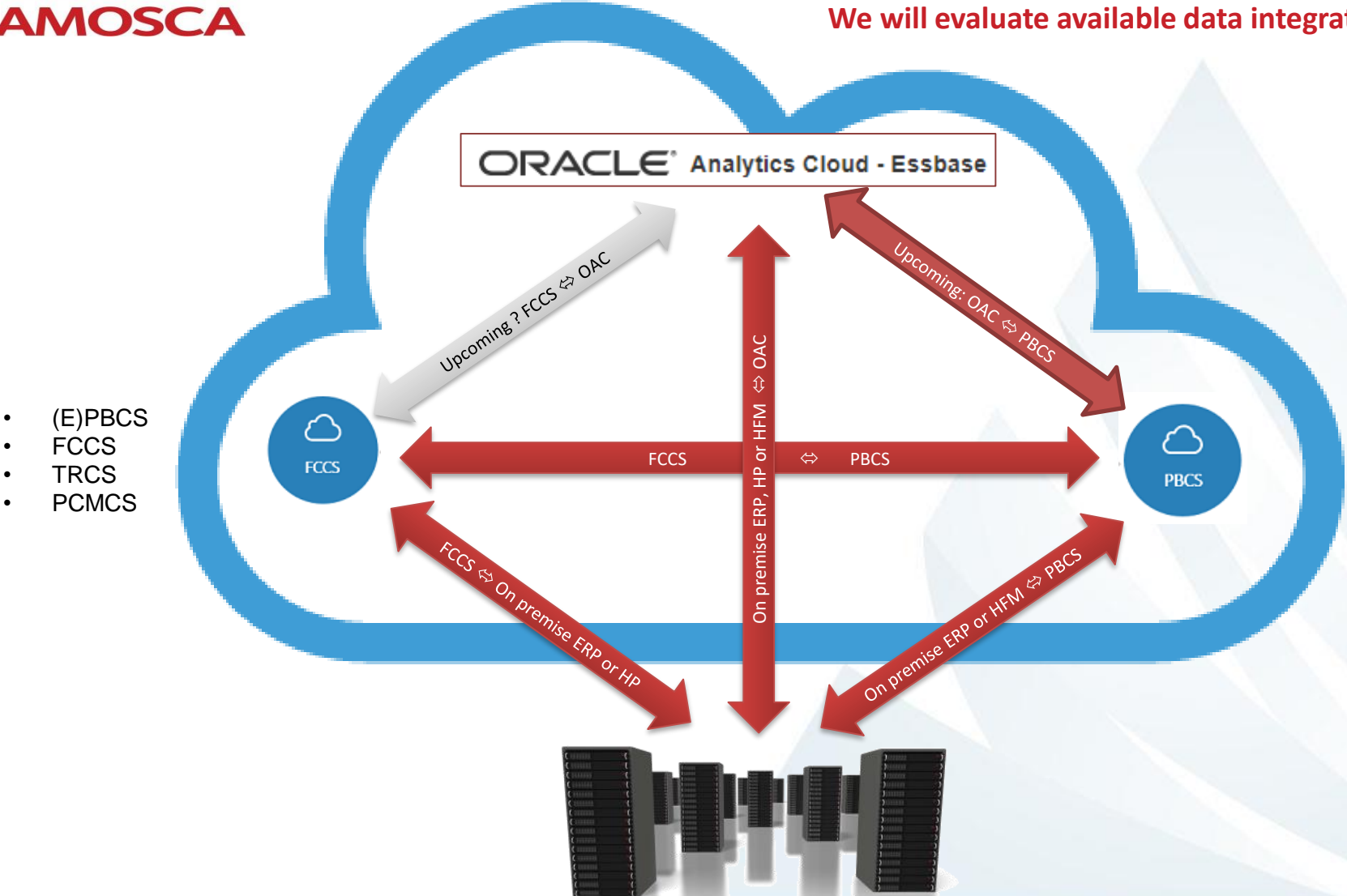
- Hybrid IT, is the strategy, planning & implementation that enables existing non-cloud infrastructure to run alongside cloud infrastructure, and migrate as necessary



Why does it Matter ?

# Hybrid integration

We will evaluate available data integration options



- (E)PBCS
- FCCS
- TRCS
- PCMCS

On premise— Accounting Systems, Business applications, Hyperion Financial Management, Planning, etc...



# INTEGRATION OPTIONS



# Integration Options

## Options and tools available to import/export metadata and data

- PBCS / FCCS
  - » SmartView
  - » Native Import / Export jobs
  - » Snapshots (LCM in the cloud)
  - » Data Management (FDMEE in the cloud)
  - » EPM Automate (for Scheduling)
  - » Application Programming Interfaces (API)
  
- OAC (Oracle Analytics Cloud)
  - » Cube Designer using Templates or Free form
  - » Export utility
  - » LCM utility
  - » Dimension build rules / Data load rules (DBR/DLR)
  - » Essbase Command Line – ESSCLI (for Scheduling)
  - » Application Programming Interfaces (API)
  
- EPM On-Premise – Not covered
  - » Lifecycle management (LCM)
  - » Financial Data management Enterprise Edition (FDMEE)
  - » Data Relationship Management (DRM)
  - » OutlineLoad utility (for Hyperion Planning)
  - » Dimension build rules / Data load rules (DBR/DLR) (for Essbase)
  - » EPM Maestro (for Hyperion Financial Management)



# PBCS/FCCS: Smart View

- Metadata
- Planning admin Extension
- Dimension Editor allows importing metadata
- Data
- Normal SmartView data submission and retrieve

	A	B	C	D	E	F	G	H	I	J	K	L
1		Parent Memt	Default Data Stor	Data Type	Consol Consc	Rates Consol	Start Yr.	End Yr.	Start Period	End Period	Default Alias	Default Formula
2	Scenario		Never Share	Unspecified	Ignore	Ignore						
3	Actual	Scenario	Never Share	Unspecified	Ignore	Ignore	FY16	FY25	Jan	Dec		
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

**Smart View**

Private Connections

.pbcs.em2.oraclecloud.com

Bert\_HFM - Cloud\_Bert\_HFM

- Dimensions
  - Account
  - Consolidation
  - Currency
  - Data Source
  - Details
  - Entity
  - From Currency
  - Intercompany
  - Movement
  - Multi-GAAP

Refresh Database

Refresh Database

Database

Update custom-defined functions

Security Filters

Shared Members

Validate Limit

Refresh Cancel

**Smart View**

Private Connections

.pbcs.em2.oraclecloud.com

- Account
- Consolidation
- Currency
- Data Source
- Details
- Entity
- From Currency
- Intercompany
- Movement
- Multi-GAAP
- Period
- Scenario

Edit Dimension



# PBCS/FCCS: Import / Export Jobs

- Metadata
- Metadata Export & Import Jobs
- Data
- Data Export & Import Jobs

## Schedule Job



Cancel

Previous

Next

Finish

Jobs are actions that you can start now or schedule to run at intervals. Follow the steps below to set up this new job.

General

Job Details

Review

### What type of job is this?

- Rules
- Import Data
- Import Metadata
- Export Data
- Export Metadata
- Refresh Database
- Data Map
- Invalid Intersection Reports
- Clear Cube

### When do you want to run this job?

Run Now

Schedule starting from

10/16/17 11:43 AM

### How often do you want to run this job?

Name \*

Recurrence pattern Daily



## Data\_Export

Save

Close

Location Outbox

Cube Plan1

File Type  Comma delimited  Tab delimited  Other

Smart Lists  Export Labels  Export Names

Dynamic Members  Include  Exclude

Slice Definition

Row	Column	Point of View
Account	Period	Select...
ILVl0Descendants(Account)	ILVl0Descendants(YearTotal)	Years FY16 Scenario ILVl0Descendants(Scenario) Version ILVl0Descendants(Version) Entity ILVl0Descendants(Entity) Project ILVl0Descendants(Project) People ILVl0Descendants(People)

### Application

Overview Cubes

Type	Name
	Plan1
	Apple
	Amosca





# PBCS/FCCS: Snapshots (LCM)

- Metadata
- Metadata Export & Import (LCM)
- Data
- Data Export & Import (LCM)

Migration between EPM Applications

The screenshot shows the AMOSCA Planning and Budgeting Cloud interface. The top navigation bar includes icons for Overview, Settings, Data Maps, Jobs, and Migration. The Migration menu is open, showing options for Planning, Data Management, Calculation Manager, Groups and Membership, and Reporting. An 'Export' dialog box is displayed, with the name 'HyperionFocus 17-10-16' entered. Below the dialog, a file explorer window shows a table of files and folders, with 'Import.xml' selected. The XML content of 'Import.xml' is displayed on the right side of the file explorer.

Name	Date modified	Type	Size
info	11/12/2016 21:42	File folder	
resource	11/12/2016 21:42	File folder	
Import.xml	11/12/2016 16:24	XML Document	1 KB

```
<?xml version="1.0" encoding="UTF-8"?>
<Package>
  <LOCALE>en_GB</LOCALE>
  <User name="" password=""/>
  <Task>
    <Source type="FileSystem"
    filePath=""/>
    <Target type="Application"
    product="HP" project="Default Application
    Group" application="Apple"/>
    <Artifact recursive="false"
    parentPath="/Plan Type/Plan1/standard
    Dimensions" pattern="Project"/>
  </Task>
</Package>
```



# PBCS/FCCS: Data Management

- Data
- Import, Export, Transform Data

The screenshot displays the AMOSCA Planning and Budgeting Cloud interface. The main window is titled "Target Application" and shows configuration options for a target application named "Apple".

**Target Application Summary:**

- View: Add, Delete, Detach, Refresh Metadata, Refresh Members
- Status: Local, Cloud, Data Source
- Type: Planning

**Application Details:**

- Name: Apple
- Type: Planning
- Deployment Mode: Classic

**Dimension Details:**

Dimension Name	Create Drill Region	Target Dimension Class	Data Table Column Name
Account	<input type="checkbox"/>	Account	ACCOUNT
Entity	<input type="checkbox"/>	Entity	ENTITY
People	<input type="checkbox"/>	Generic	UD2
Period	<input type="checkbox"/>	Period	
Project	<input type="checkbox"/>	Generic	UD3
Scenario	<input type="checkbox"/>	Scenario	
Version	<input type="checkbox"/>	Version	UD1
Years	<input type="checkbox"/>	Year	

**Source System Configuration:**

- Source System Name: [Text Field]
- Source System Type: [Dropdown Menu: File, NetSuite, File, Oracle HCM Cloud, Oracle Financials Cloud]
- Drill Through URL: [Text Field]

The interface also shows a sidebar with navigation options like "Tasks", "Configure", "Register", "Integration Setup", "Data Load Setup", "Reports", and "Batch".



# PBCS/FCCS: EPM Automate

- Windows & Linux command line utility
- Enables uploading, downloading of files to and from the cloud
- Enables automation of integration routines



## EPM Automate

Allows administrators to remotely perform tasks within service instances and automate many repeatable tasks, such as import and export of metadata and data.

[Download for Windows](#)

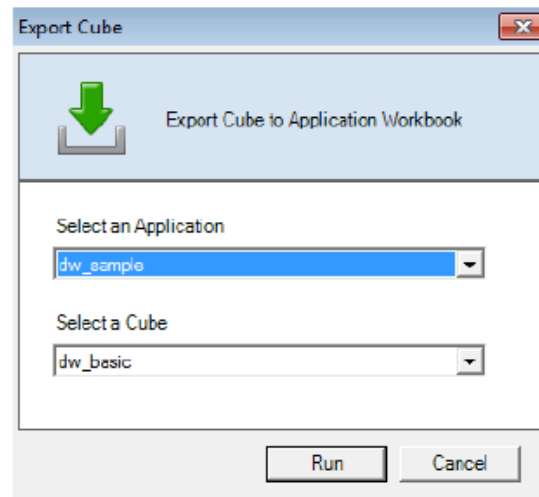
[Download for Linux](#)



# OAC: Cube Export Utility (dbx tool)

export.bat  
export.sh

- Enables Exporting metadata and data to an Excel Workbook using command line
- During the export process, a structured file representing metadata, named *Appname\_Cubename.xml*, is created in the specified export directory.
- This .xml file is then used to create an application workbook, named *Appname\_Cubename\_timestamp.xlsx*.
- The application workbook can be used to redeploy the same cube to the cloud service.





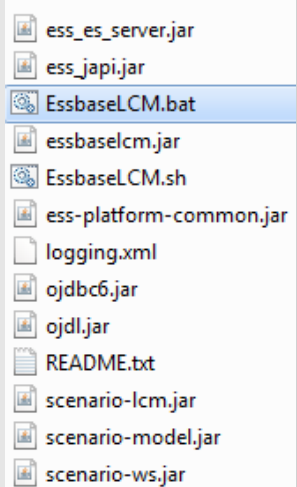
# OAC: LCM Utility

A command line based tool used to migrate Essbase artefacts from one Essbase deployment to another within and across releases.

Typical use case:

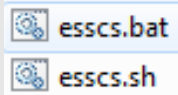
- Export from On-Premise Essbase (PS4) as a zip file and import in to Essbase cloud(12c)
- The tool can also be used to export and import in to the same releases/Essbase.

The Essbase content exported through LCM utility is a zip file. Supported releases for this tool are 11.1.2.4.0xx, 11.1.2.4.5xx , 12c EssCs.





# OAC: Essbase Command Line (ESSCLI)



- Windows & Linux command line utility
- Enables uploading, downloading of files to and from the cloud
- Enable automating integration routines
- Example of commands:
  - » Calc
  - » Dataload
  - » Dimbuild
  - » Upload
  - » Download
  - » Lcmimport
  - » Icmexport



# OAC: Cube Designer

- Excel Extension for Essbase Administration
- Enables exporting & importing Essbase artefacts

	A	B	C	D	E		
1	Application Name	<b>HyperionFocus</b>					
2	Database Name	<b>Visit-London3</b>					
3	Version	1.0					
4							
5	<b>Dimension Definitions</b>						
6							
7		Dimension Type	Storage				
8	Measures	Accounts	Dense				
9	year_Dim	Time	Dense				
10	quarter_Dim	Regular	Sparse				
11	market_Dim	Regular	Sparse				

	A	B	C	D	E	F	G
1	Dimension Name	<b>Measures</b>					
2							
3	<b>Definitions</b>						
4	File Name	Dim_Measures					
5	Rule Name	Measures					
6	Build Method	PARENT-CHILD					
7	Incremental Mode	Merge					
8							
9	<b>Members</b>						
10	Columns	PARENT	PARENTID	CHILD	MEMBERID	STORAGE	CONSOLIDATION
11		Measures	Measures	Measures	Measures	X	
12		Measures	Measures	visits	Measures.visits		~
13		Measures	Measures	spend	Measures.spend		~
14		Measures	Measures	nights	Measures.nights		~
15							
16							
17							

	A	B	C	D	E	F	G
1	<b>Properties</b>						
2							
3	Application Type	BSO		Aggregate missing values	No		
4	Outline Type	Duplicate		Create blocks on equations	No		
5	Date Format	yyyy-mm-dd		Two-Pass calculation	Yes		
6	Scenario Sandboxes	0					
7							
8	<b>Alias Tables (Alternate Member Names)</b>						
9							
10	Default						
11							

None  
 Prefix  
 Underscore  
 Ops of Ranges  
 Month First (mm-dd-yyyy)  
 True



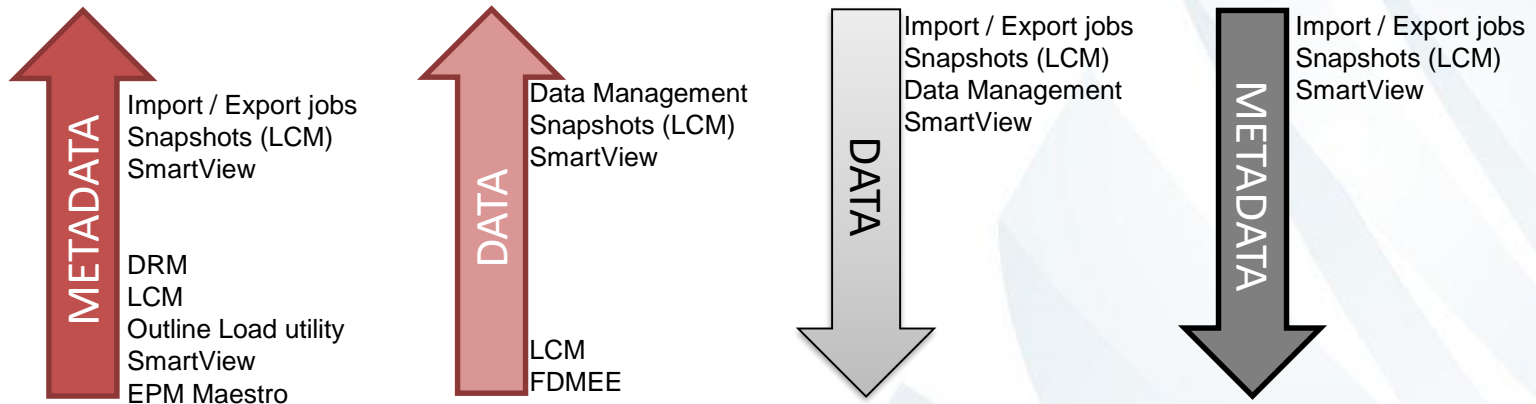
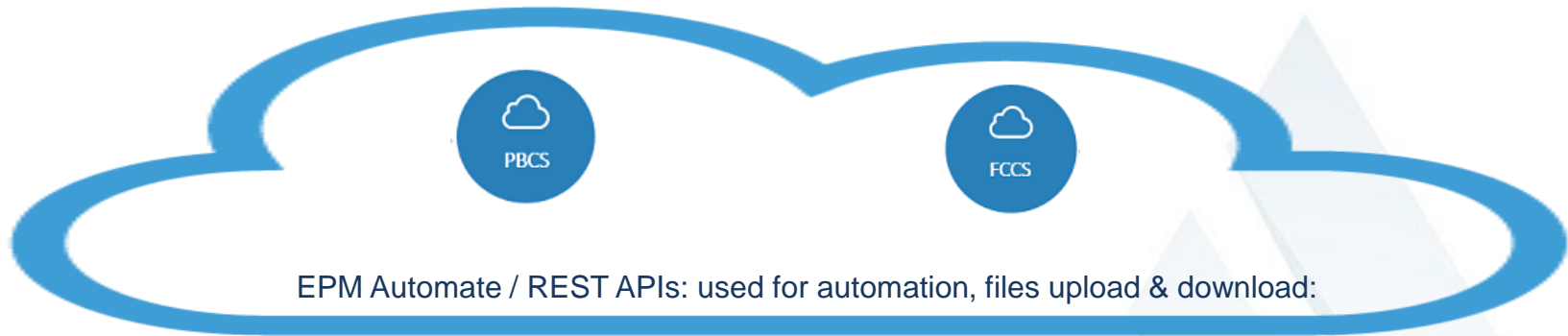
# INTEGRATION SCENARIOS





# PBCS / FCCS ↔ On-premise ERP, EPM

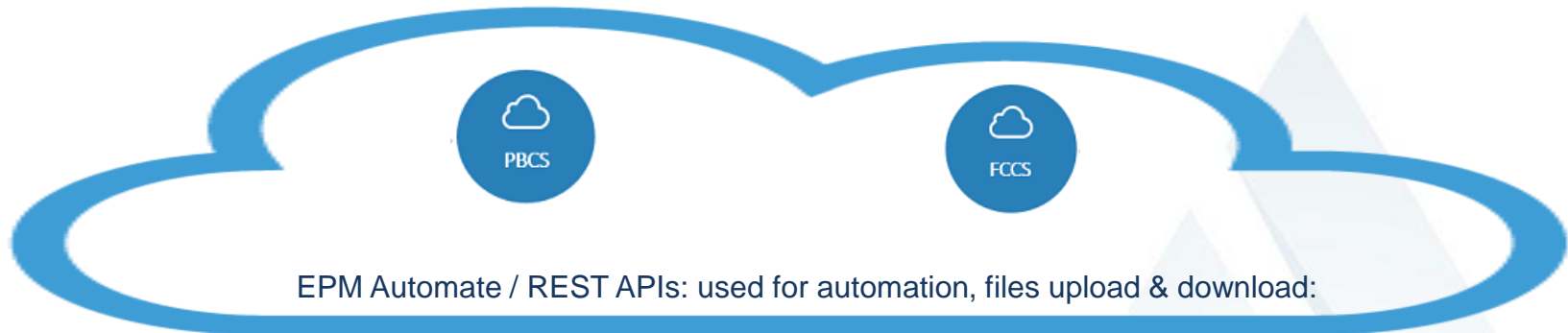
Transferring PBCS/FCCS Data and Metadata to and from the cloud



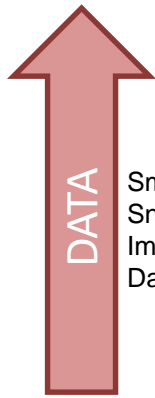
# PBCS/FCCS ↔ PBCS/FCCS



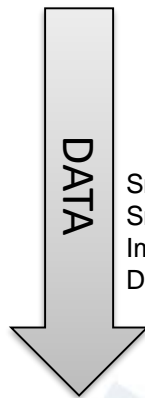
Transferring PBCS Data and Metadata to and from other PBCS applications



SmartView  
Import / Export jobs\*  
Snapshots (LCM)\*



SmartView  
Snapshots (LCM)\*  
Import / Export jobs\*  
Data Management



SmartView  
Snapshots (LCM)\*  
Import / Export jobs\*  
Data Management



SmartView  
Import / Export jobs\*  
Snapshots (LCM)\*

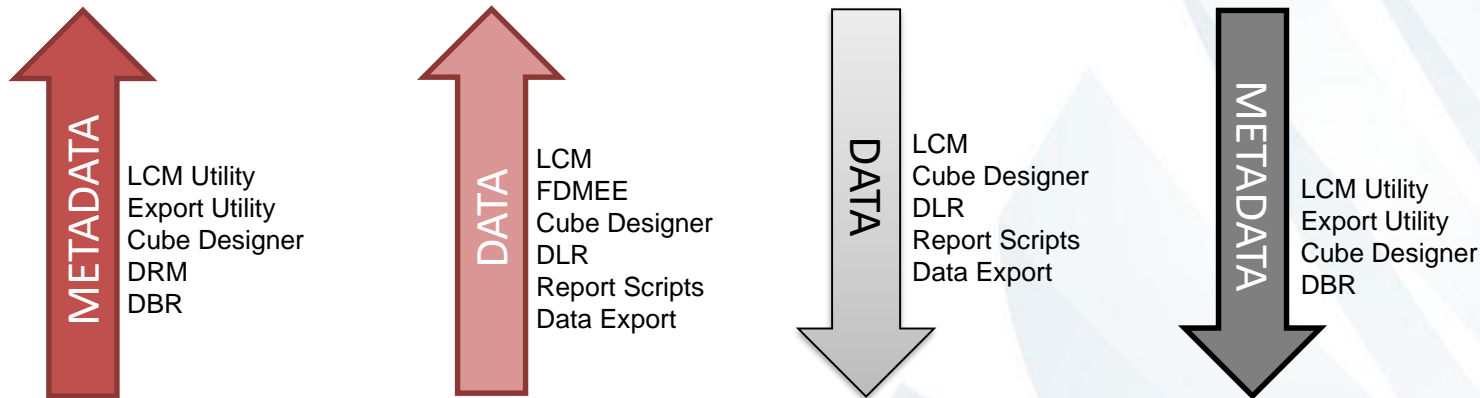


(\*)  
Integration  
box required  
to execute



# OAC ↔ On-premise ERP, EPM/Essbase

Transferring PBCS/FCCS Data and Metadata to and from the cloud





# Recommendations & Conclusion

- Metadata and data flows: Ensure that you identify Hybrid integration points early in your design phase
- There are many integration options available, we can highlight the pros and cons for each of them and assist you to chose the best tools for your job.
- We excluded “Integration CS” & “ODI CS” because as of October 2017, these CS modules do not offer FCCS/PBCS/OAC plugins or knowledge modules. This is likely to change in the future. Watch this space.

# Hyperion Focus 17

## Thank you. Questions ?



# Integration Overview

Oracle EBS,  
PeopleSoft, JDE, Fusion  
APPs, SAP R/3

Data Warehouse  
Data Mart

Other  
Systems

File  
Excel

