

# Why We Stayed On-Prem (for now)

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# Disclaimer

- This is only my opinion and summaries based on presentations we'd seen over the last year and various meetings with Oracle, etc. to try to understand the cloud components and our effort to migrate current applications to it.
- Do your own research and make your own opinions.
- Every company's situation is going to be different.

# Agenda

- My Background
- Cloud Benefits
- Current Environment & Processes
- On Prem to Cloud Mapping
- Cloud Concerns
- Cloud Roadmap

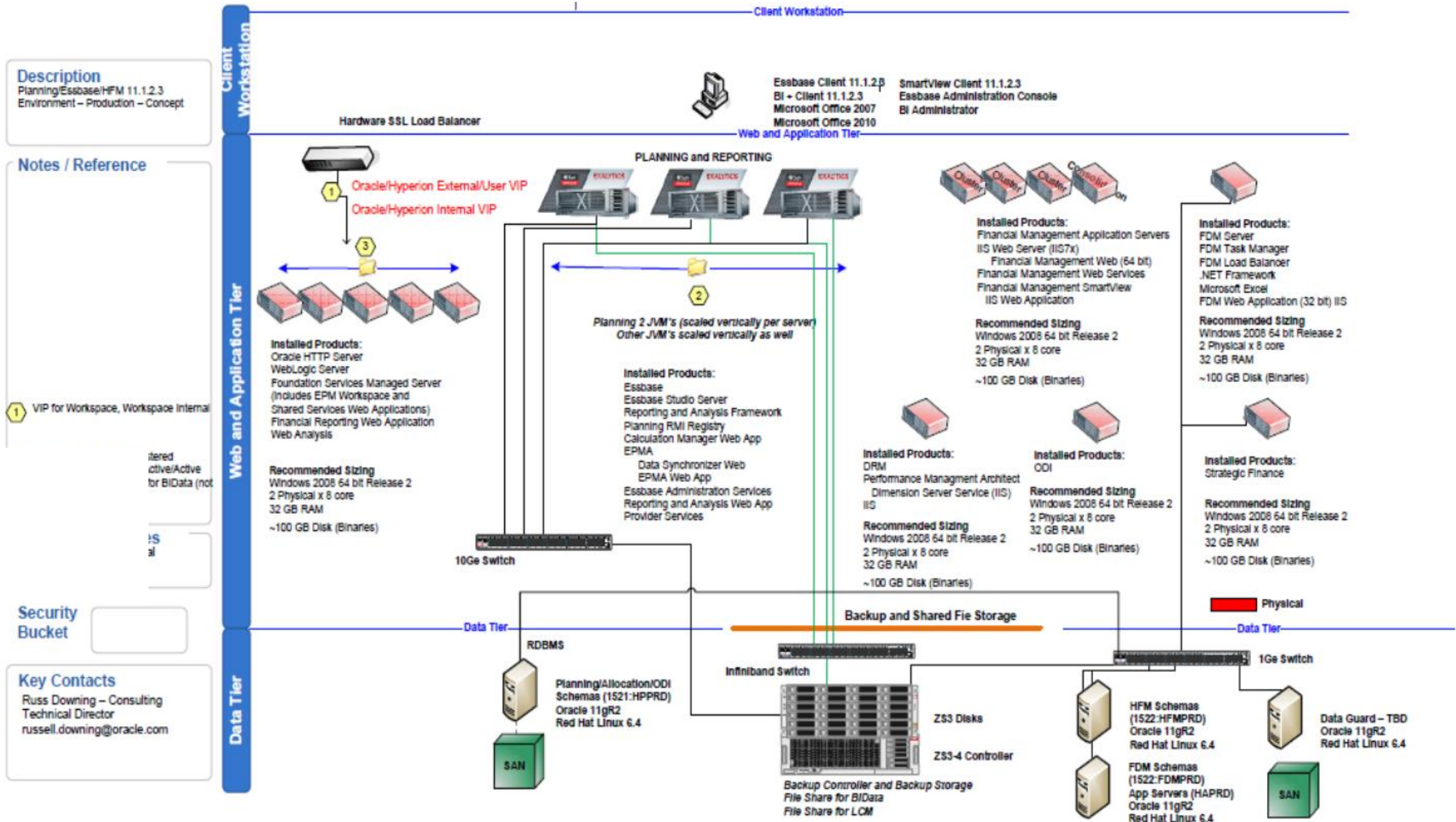
# My Background

- 10+ Years BI/EPM Consulting
- 10+ Years Employee Supporting BI/EPM and/or Software Development
- 10+ Years Hyperion
- Halliburton, The Palladium Group, ThinkFast, Accenture, American Airlines/Sabre Group, Burlington Northern Sante Fe Railroad, Minnesota Mutual Insurance, FedEx, CVS, etc.

# Cloud Benefits We Saw

- Cloud Lease OPEX versus Buy/Own CAPEX model
  - Cloud Rent Hardware and Software
  - Though there are Alternatives to Rent Hardware and Own the Software (Managed Services) basically offsite On-Prem
- Includes IT Infrastructure and Hyperion Infrastructure support, DBA, Monitoring, Backup, DR, etc.
- Automatic (but forced) O/S and Application versions and patching
- New functionality – Cloud first, then On-Prem
- SmartView Excel is still main self-service end user interface, so should be easy transition for end users

# Current Environment - Prod

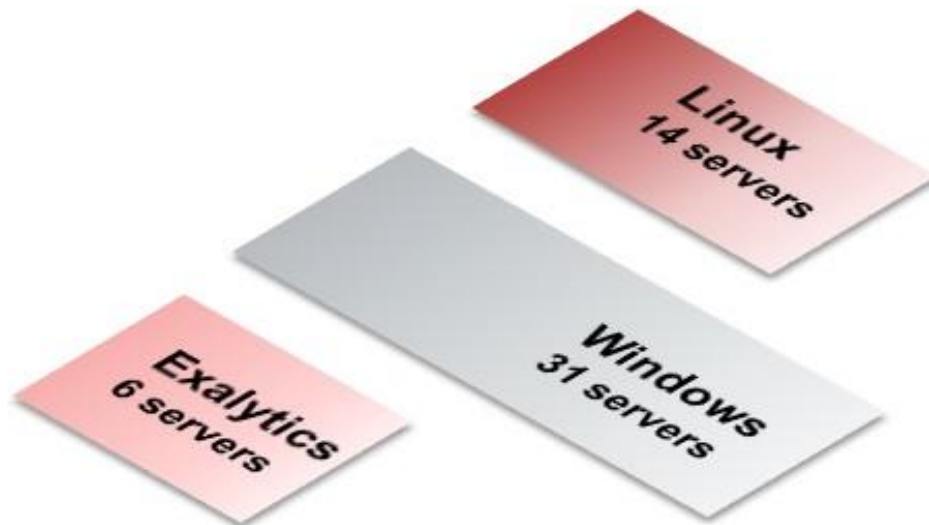


# Current Hyperion Infrastructure & Application Suite

## Current Infrastructure

45 servers in total

- Prod – 19
- Stage – 15
- Dev - 11



Current Hyperion Application Suite		Current Patchset
Foundation	Foundation	11.1.2.3.000
Shared Services	HSS	11.1.2.3.000
Workspace	Workspace	11.1.2.3.000
Hyperion Planning	HP	11.1.2.3.501
Essbase	Essbase	11.1.2.3.505
Calculation Manager	CM	11.1.2.3.500
Essbase Administration Services	EAS	11.1.2.3.505
Analytic Provider Services	APS	11.1.2.3.505
Hyperion Financial Management	HFM	11.1.2.3.501
Financial Data Quality Management	FDM	11.1.2.3.500
Hyperion Financial Reporting	FR	11.1.2.3.505
Hyperion Strategic Finance	HSF	11.1.2.3.503
Smartview	Smartview	11.1.2.5.210
Data Relationship Management	DRM	11.1.2.3.503
Oracle Data Integrator	ODI	11.1.1.7.000

# Current Apps & Users

- 20 Planning Apps (14 are geo copies of 2 main models) – 2000 Users Ess/Pln
- 10 Essbase ASO Cubes
- FDM, HFM – 50 Users
- DRM, ODI – Admins - 5
- HSF – 5 Users



# Current Compliance Status & 2018 Upgrade Scope



## HARDWARE

Windows hardware will become out of compliance beginning January 2018



- Refresh Windows & Linux Hardware
- Potential virtualization of environments



## OS

Server OS is out of compliance

- Oracle Enterprise Linux (OEL) 5 is obsolete as of June 2016
- Windows Server 2008 will be obsolete by end of December 2017



## UPGRADE SCOPE

- Upgrade Oracle Enterprise Linux from version 5.5 to 7.3



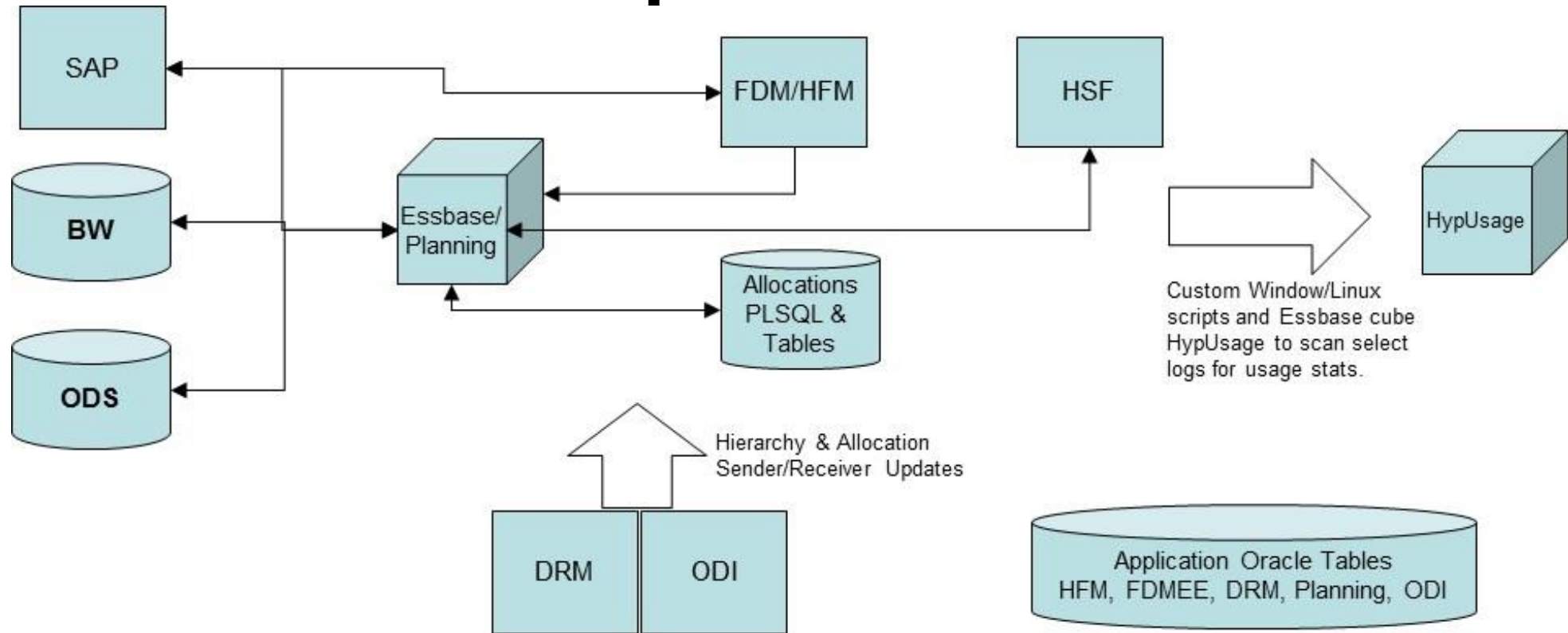
## APPLICATION

- Current patch set (PS) version is 11.1.2.3.500; grace period support ended as of Feb 2016
- Premier support will end in Dec 2020
- Extended support will end in Dec 2021



- Upgrade Hyperion applications to version 11.1.2.4 or 11.1.2.5
- Convert FDM application (phased out) to FDMEE
- Upgrade Exalytics firmware to be compatible with 11.1.2.4
- Performance tuning / configuration changes based on Oracle recommendation

# Process Flow & Supporting Components



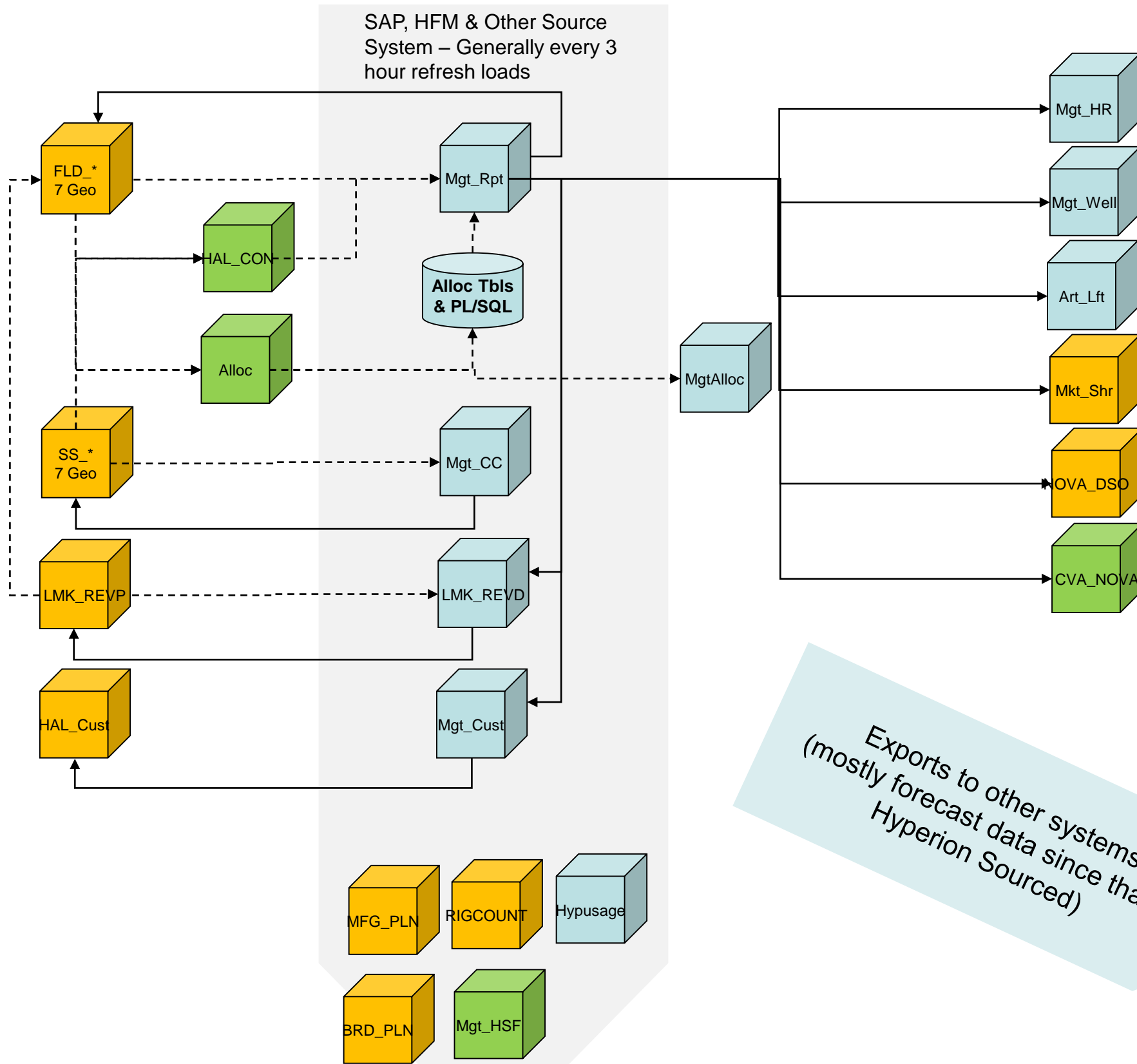
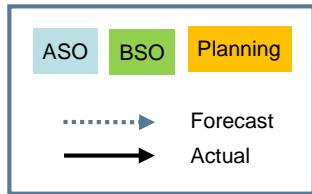
Batch Automation (100's of scripts/objects)		
Cronacle Triggers	Cronacle Triggers SAP, etc. Exports and Triggers Hyperion Custom Linux Shell Scripts calling MaxL.	Custom Powershell, etc scripts for FDM/HFM Day 3 automation

Backups & Disaster Recovery			
Standard File Server Backups	RMS Standard Oracle DBMS Backups	Linux targeted backup & copy to Recovery environment scripts	Windows targeted backup & copy to Recovery environment scripts

ZFS

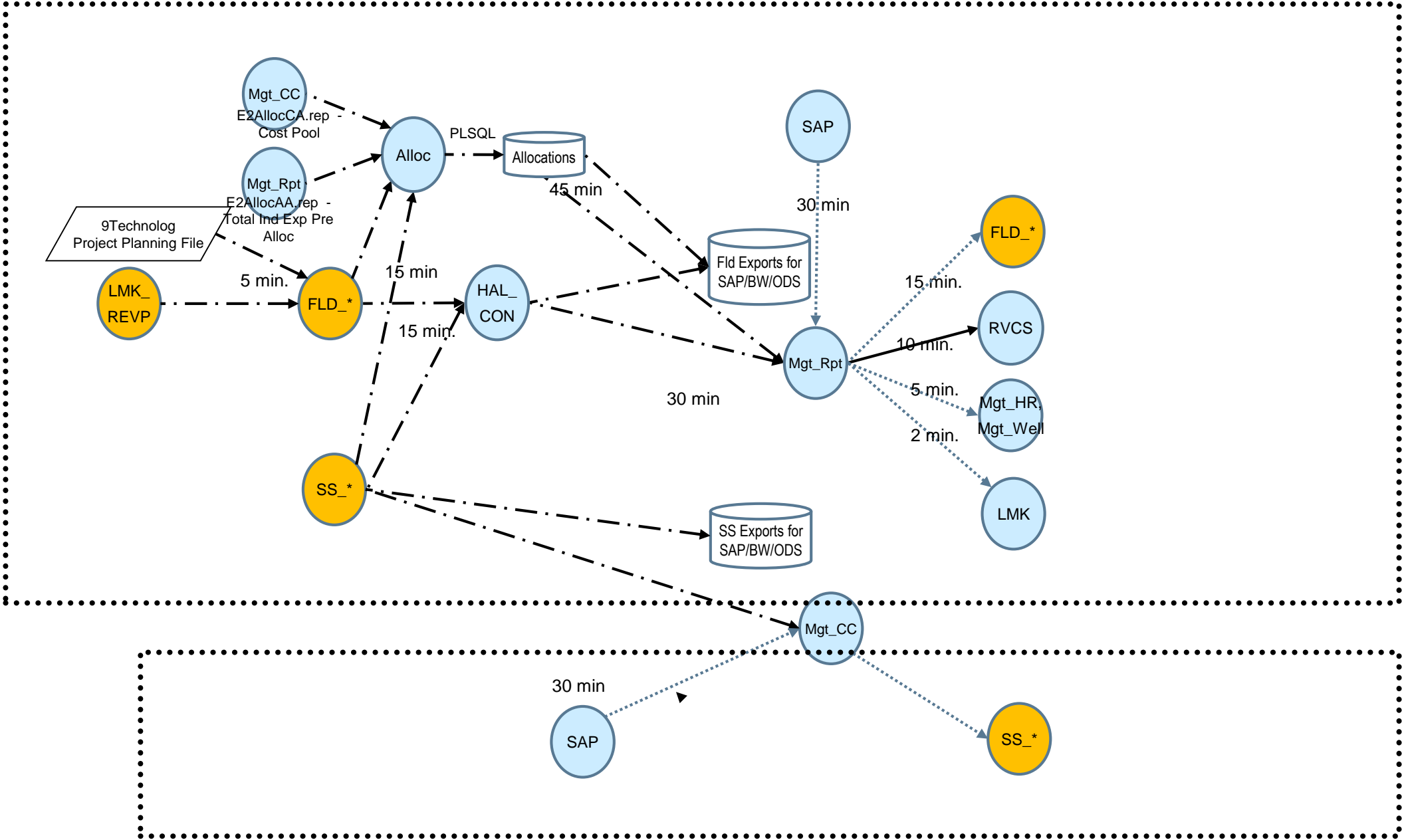
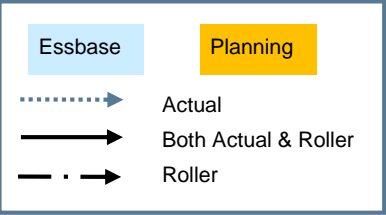
Hyperion Infrastructure & Testing				
Monitoring ProactiveNet	Service Start/Stop Manual HP	Log Analysis Manual HP	Performance/Stress Testing – Load Runner (Only during Upgrade)	COE Testing & Post O/S Patch Testing - Manual

# CORE Essbase/Planning Applications – Interfaces Overview



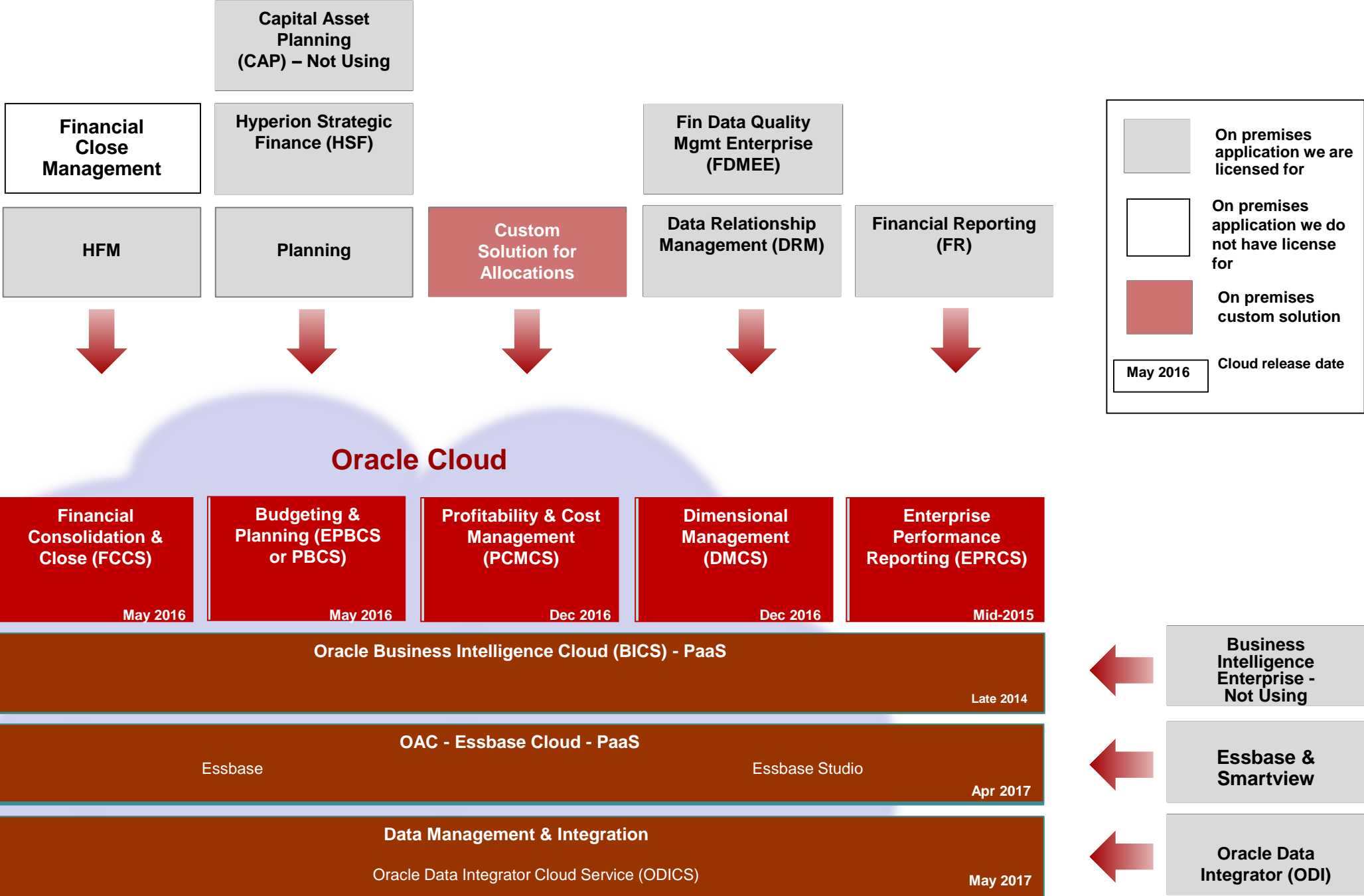
Exports to other systems  
(mostly forecast data since that is  
Hyperion Sourced)

# One of More Complex Flows – Lots of Integration



# On-Prem to Cloud Mapping

(with our guess approximate dates each came out – harder to find than you’d think.)



# Hybrid On-Prem – Cloud?

- Planning & Essbase – Major re-work of interfaces. Plus already have plenty of capacity for Planning & Essbase on current servers.
  - OAC Essbase Cloud & Planning Cloud
  - OAC & On-Prem Planning (Seems least effort, but if have On Prem Planning, we have the capacity for Essbase.)
  - On-Prem Essbase & Planning Cloud
- New Planning Apps or stand-alone Planning Apps to Cloud
  - Great Proof of Concept. May double pay since same users might need On-Prem license anyway. Plus, have the capacity for a lot more apps.
- DRM to DCMS, HSF to EPBCS Strategic Finance Module
  - Fewer and simple integrations, plus on stand-alone servers
  - New products – Proof of Concept first?

# Cloud Concerns



Product Immaturity

Most of the cloud solutions are not cloud versions of existing applications and are rather completely new products. Solutions are still immature – major products were released in the last 18 months or less



Major Redesign Effort

Our Hyperion environment is extremely integrated between components.. Full migration to the cloud would require a major process and solution redesign



Limited Integration

Limited out of the box integration between cloud products  
Also, limited integration with On-Prem makes Hybrid Option a bigger effort.



Limited Functionality and Customizations

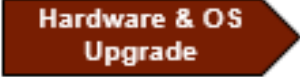
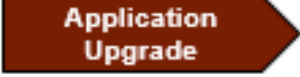

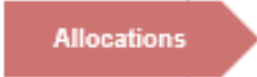


Some cloud products do not cover full on premise functionality. Limited options to customize cloud products to fit the needs of our business processes



Forced Patching

Forced patching will require more frequent and more extensive test cases be developed. Testing must be performed on Oracle's timeline

# Possible Cloud Roadmap?

Effort	2018	2019	2020	2021	2022
<b>On Premise Upgrade</b>	 				
<b>Cloud Migration 1</b> HSF and DRM are fairly stand-alone apps with fairly simple integrations  Allocations is complex custom process. Would require a substantial effort to convert to HPCMCS		  			
<b>Cloud Migration 2</b> This is not a cloud version of HFM but a new product. This will be a complex migration					
<b>Cloud Migration 3</b> The biggest and most complex migration on the Hyperion cloud roadmap that includes a major redesign effort. About 200 scripts would need to be re-built.				