

Implementation of Hyperion EPM Systems Integrated to Oracle EBS

Presented By
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Coherent the Photonics Company

Provider of Photonics Solutions – Primarily Lasers for Commercial and Scientific Research Applications

- Founded in 1966, Corporate Office, Santa Clara, CA
- Fiscal 2009 Sales \$435.9 Million TTM, 2010 close to ~600 Million
- Fiscal 2009 Orders \$419.2 Million TTM, 2010 close to ~600 Million
- 1,700+ Employees
- Sales 34% U.S. and 66% International
- 355 Patents, 92 Pending

Note: Photonics is the Merger of Lasers, Optics and Electronics
Source: Company management as of 7/3/09.

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Diversified Applications and Markets

Applications

Microelectronics

- Mask writing, semiconductor inspection, marking, flat panel display, solar and advanced packaging and interconnects

Materials Processing

- Marking, welding, engraving, cutting and drilling, textile manufacturing and rapid prototyping

Scientific Research & Gov. Programs

- Regenerative amplification, multiphoton excitation microscopy and spectroscopy

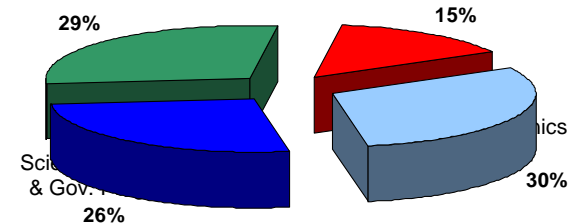
OEM Components & Instrumentation

- Microscopy, DNA sequencing, flow cytometry, drug discovery, refractive surgery, Raman spectroscopy, entertainment, laser projection and forensics

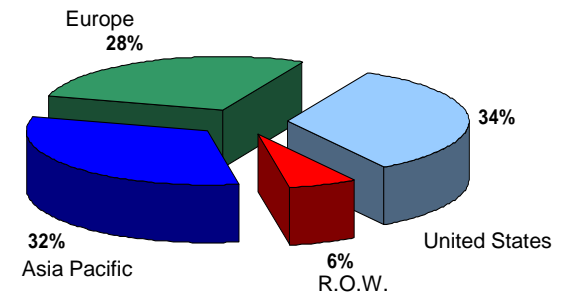
Revenue Mix (TTM as of 7/04/09)

OEM Components
& Instrumentation*

Materials
Processing

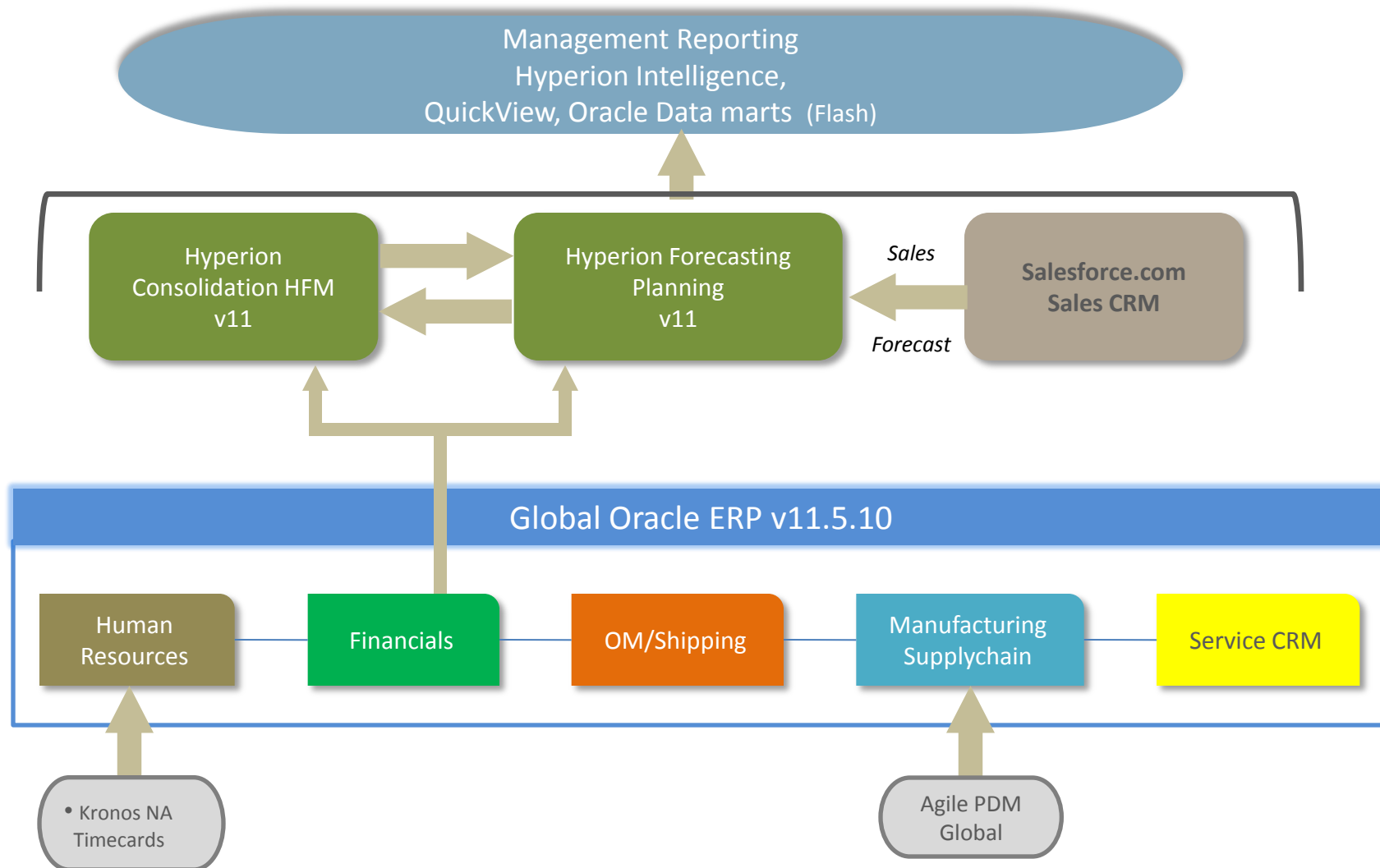


Geographic Sales Distribution (TTM as of 7/04/09)



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Coherent Application Overview



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EPM and Financial Close Benefits

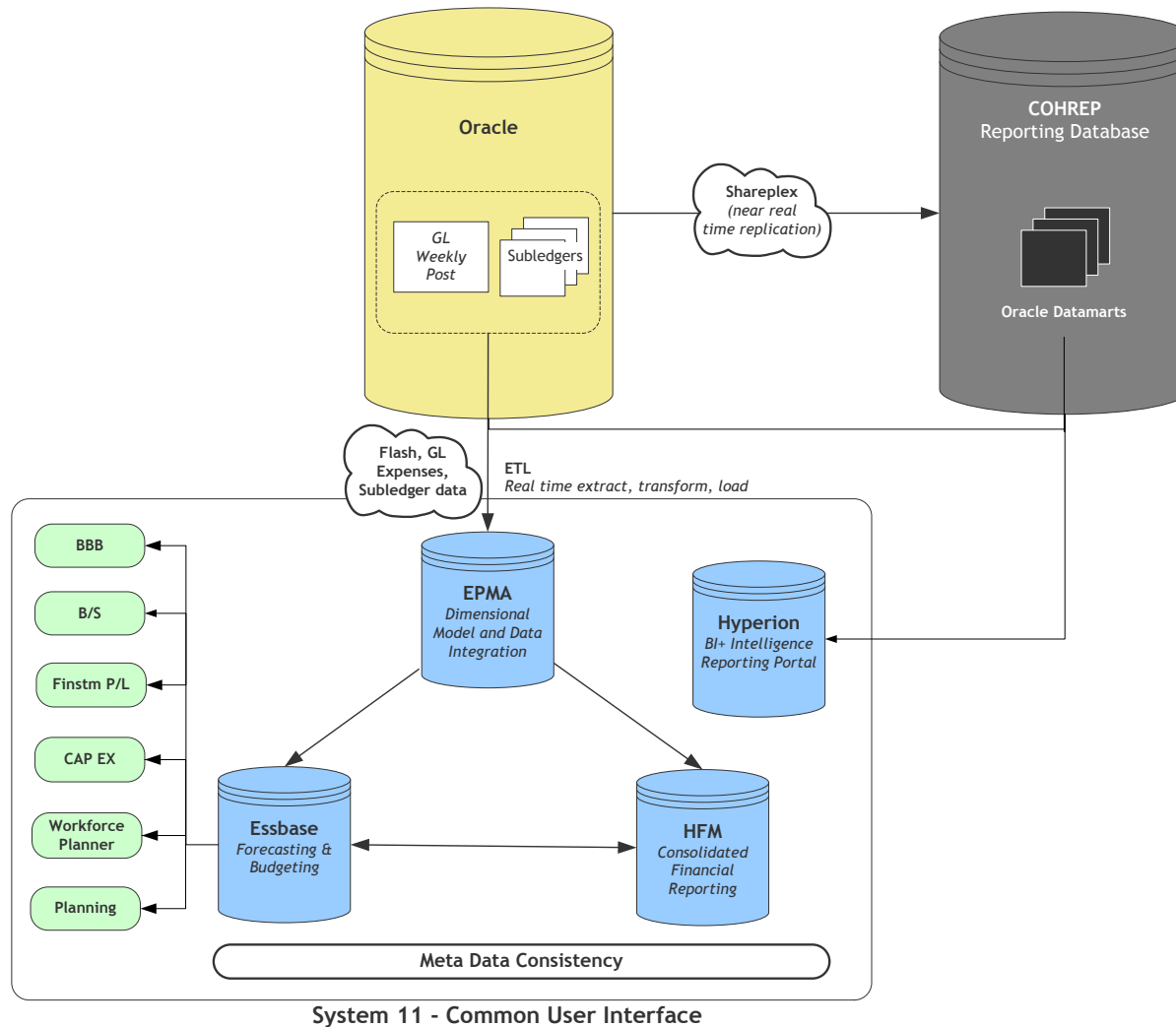
Element	Past	EPM 9.3.1	EPM 11.1.1.3
Oracle Close Preparation	Manual, Low visibility of interfaces	High Visibility and Identification of transactional interfaces	Reduction in problem transactions, ME Close preparation to avert any delays
Oracle Sub-ledger Close Automation	Manual for 40 inventory orgs, 8 Operating units	Native, Automated sub-ledger posting and closing process	Fully automated Oracle ME close up to GL, automated consolidation.
Oracle EBS Data Feeds to Hyperion	flat files, many layers, manual	Scheduled, controlled through Oracle EBS Concurrent Manager	Improved integration, fully automated HFM and Planning data feeds
Legal Entity Month End Submissions	Excel Spreadsheets	Automated data feeds from Oracle EBS to HFM	One Touch automated data feeds from EBS to HFM/Planning
Sox 404 Compliance	Manual controls	HFM Sox 404 improvements, submission approval workflows	Sustain current high level of compliance
Financial Time to Close	7-10 business days	5 business days	5 business days, Automated, streamlined financial consolidation from Oracle
Management Reporting	Inconsistent data due to timing differences	Consistent data, timely delivery	Improved financial information and reporting

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Planning - Recap (Budget, Forecast, Actual, Flash BBB)

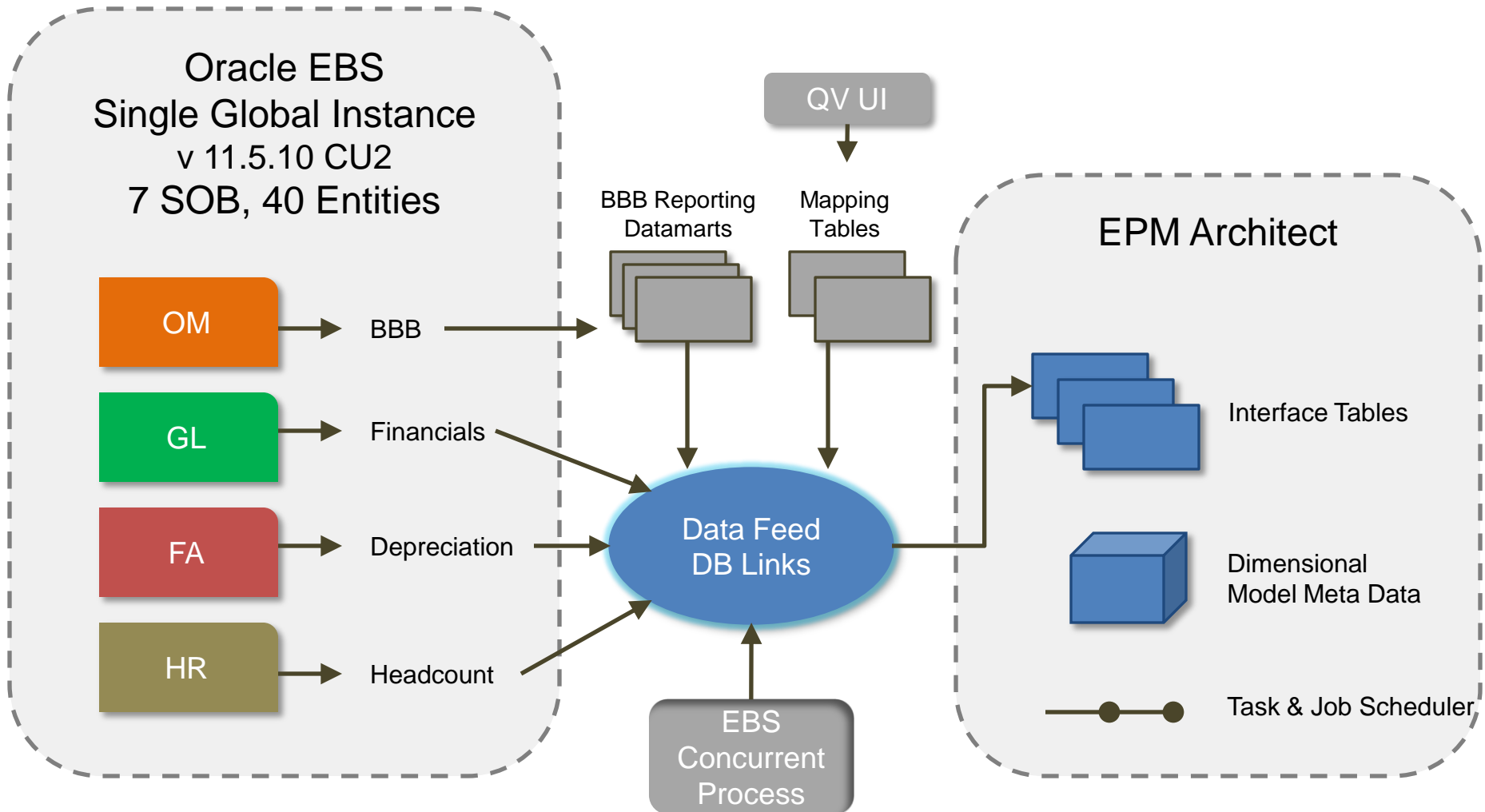
Element	Past	EPM 9.3.1	EPM 11.1.1.3
Oracle EBS Data Feeds to Hyperion Planning	flat files, many layers, manual	Scheduled, controlled through Oracle EBS Concurrent Manager and EPMA	Improved integration, fully automated data feeds.
Dimensional Model and metadata Management	Silo'd from Oracle EBS and Hyperion Enterprise	EPMA one source dimensional and metadata management consistent with EBS and HFM	EPMA one source dimensional and metadata management consistent with EBS, HFM, Essbase Cubes
Forecast to Actual Reporting	Manual, multi-layer process to get data	Automated data integration using EBS, Data marts, and EPMA native interfaces	Improved security and control for Data feed processes
Headcount Reporting	Manual process on excel	Fully automated process from EBS HRMS to EPMA to HFM and Planning	Fully automated process from EBS HRMS to EPMA to HFM and Planning
Full P/L Reporting	Incomplete P/L due to missing Salary and Fixed Asset depreciation data	Complete P/L with salary, depreciation, gross margin, and period expenses; synchronized to HFM ME P/L	Improved Planning feed process to enable running data feeds for selective entities
Flash BBB Reporting	Manual, multi-layer process to get data	Automated data integration using EBS, Data marts, and EPMA native interfaces	Automated data integration using EBS, Data marts, and EPMA native interfaces
Management Reporting	Inconsistent data due to timing differences	Consistent data, timely delivery, complete data	Improved financial budget to forecast to actual information

Coherent Hyperion Financial Reporting Environment

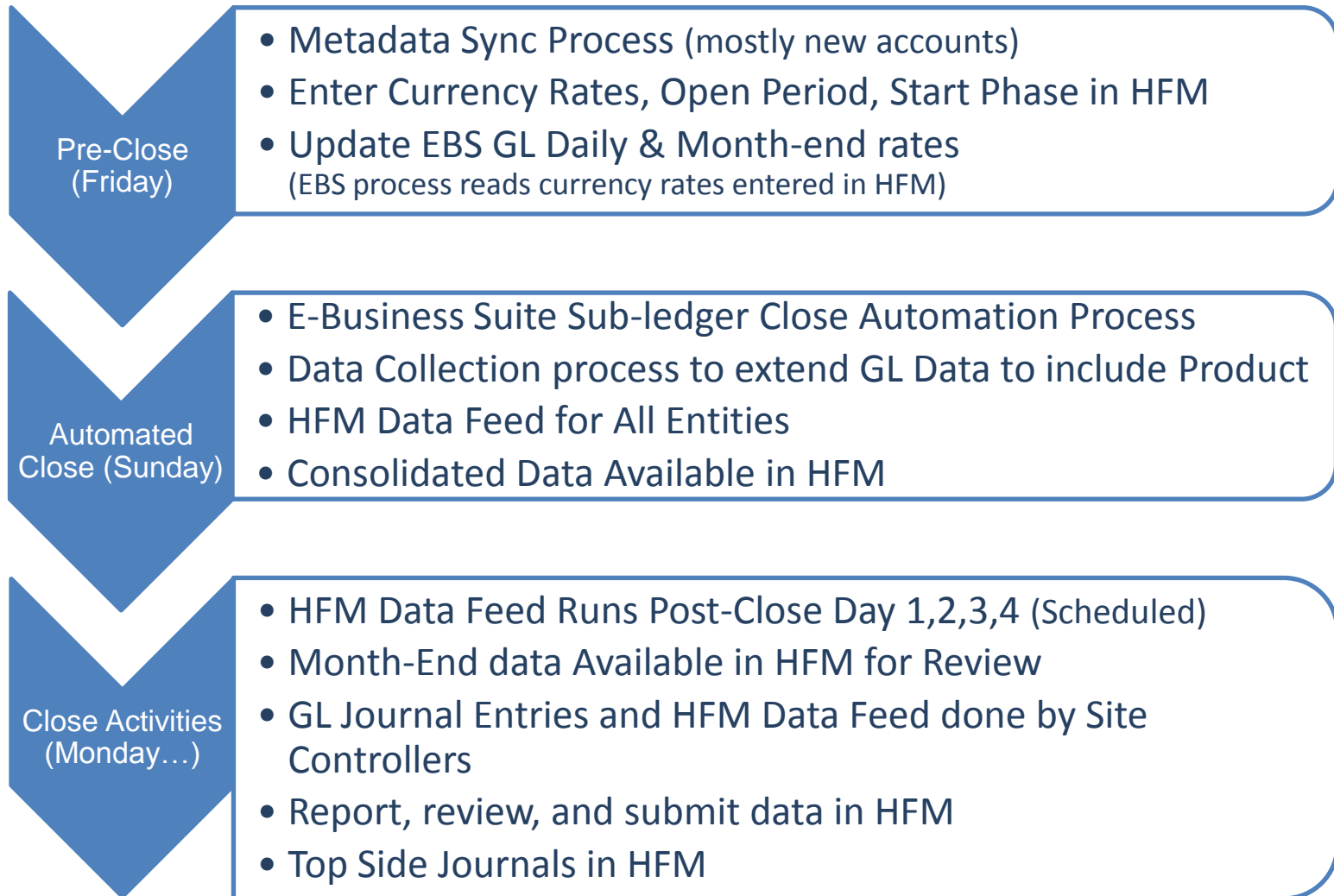


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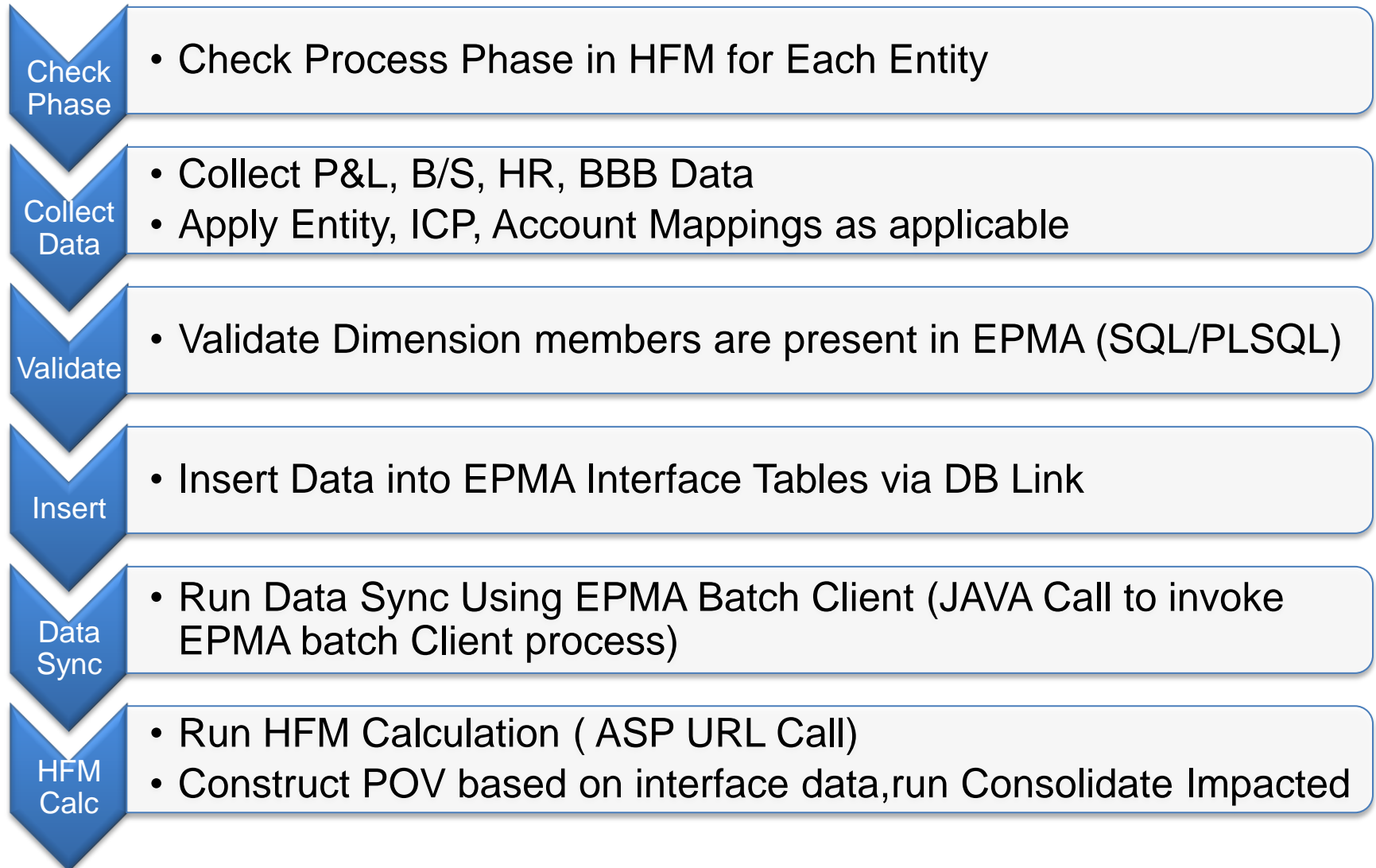
Hyperion EPM Architecture



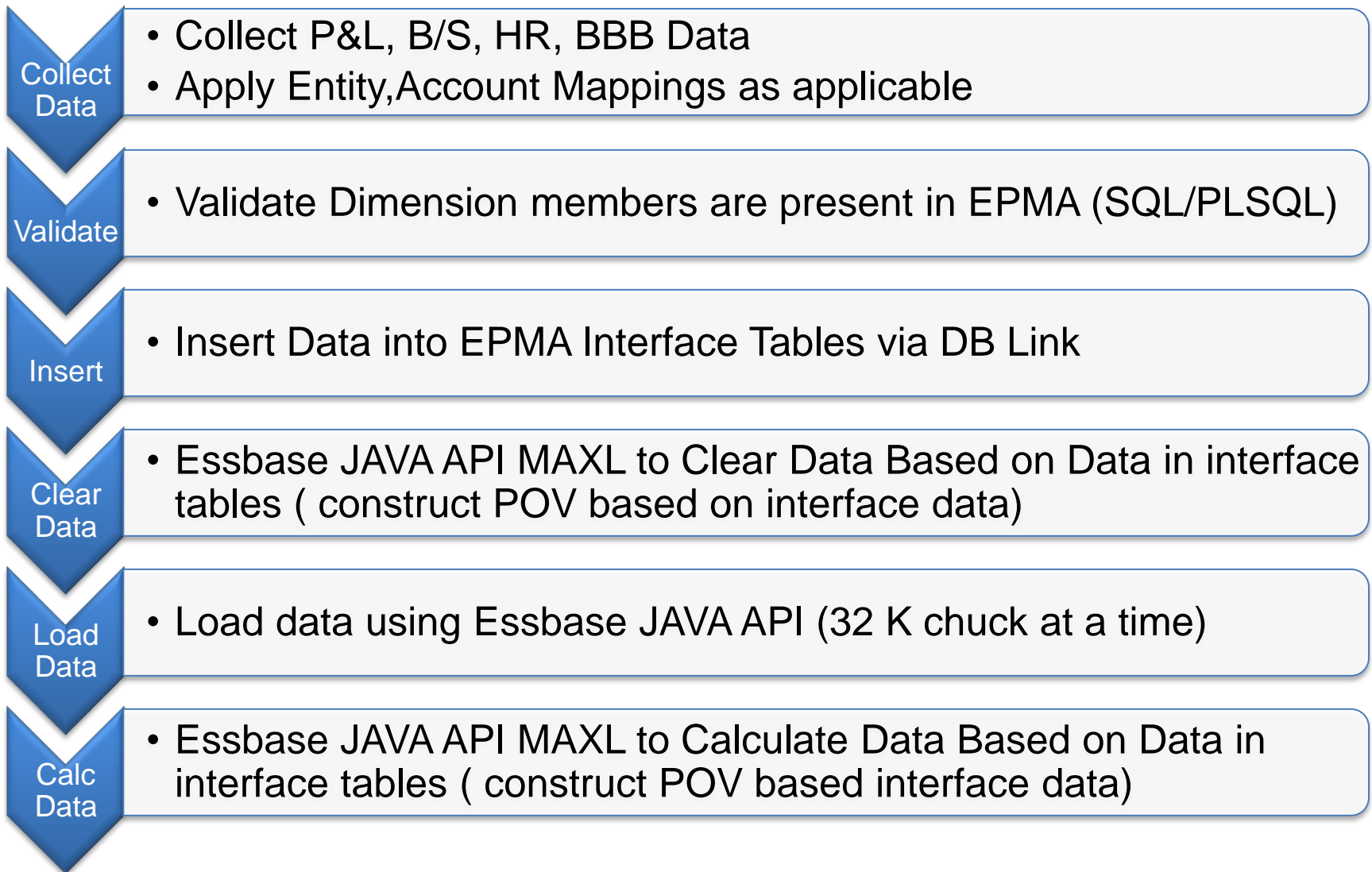
Period Close Process Overview



HFM Data Flow Process (EBS Concurrent Process)



Planning Data Flow Process (EBS Concurrent Process)



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HFM Data Feed Concurrent Process submission Parameters (IT and Business)

Submit Request

Run this Request...

Name **Coherent HFM Data Feed**

Parameters **NOV-10:010:010:Yes:HFM 010 Oracle Data Load:Dhananjay.pandit@coherent.com::Y**

Lang Parameters

GL Period **NOV-10**

Entity Range From **010** Santa Clara Other

Entity Range To **010** Santa Clara Other

Run M2.0 Detail (GL Only) **Yes**

Data Sync Name **HFM 010 Oracle Data Load**

User Email Addresses (Comma Separated) **Dhananjay.pandit@coherent.com**

Error Notification Email Addresses (Comma Separated)

Run Hyperion HFM Load and Calc **Yes**

Run Planning BS,Exp,PL,SPC Data Loads **Yes**

Help (C) OK Cancel Clear Help

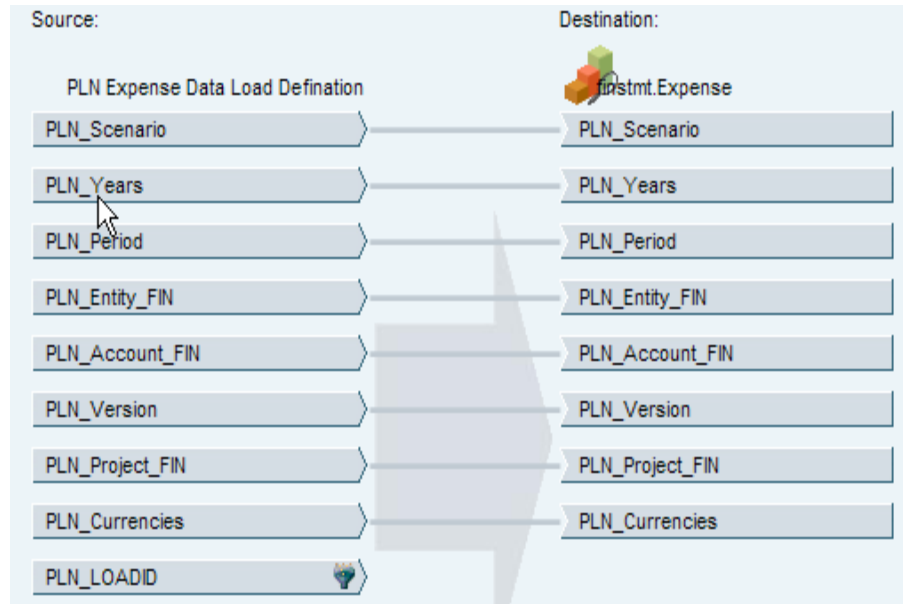
Request ID	Name	Parent	Phase	Status	Parameters
47482534	Coherent Email.		Completed	Normal	Dhananjay.pandit@coherent
47482527	Coherent Email.		Completed	Normal	Dhananjay.pandit@coherent
47482521	Coherent Email.		Completed	Normal	Dhananjay.pandit@coherent
47482520	Coherent PLN Expense C		Running	Normal	NOV-10, 010, 010, Actual, , ,
47482519	Coherent PLN Balance S		Running	Normal	NOV-10, 010, 010, Actual, , ,
47482518	Coherent PLN SPC Feed		Completed	Normal	NOV-10, 010, 010, Actual, , ,
47482517	Coherent PLN Profit and		Completed	Normal	NOV-10, 010, 010, Actual, , ,
47482472	Coherent M2.0 Detail Ext		Completed	Normal	NOV-10, 010, 010, Y
47482469	Coherent HFM Data Feed		Completed	Normal	NOV-10, 010, 010, Y, HFM 010











Data Sync Name drop down (from EPMA via DB Link) is made available to run applicable data sync process

HFM data feed also submits planning data feeds to keep data consistent across HFM and planning applications

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Data Synchronizations (Create one per Source and then copy)



	HFM 040 Oracle Data Load	HFM 040 Oracle Data Load	Thursday, Septemb...
	HFM 050 Oracle Data Load	HFM 050 Oracle Data Load	Wednesday, Nove...
	HFM 060 Oracle Data Load	HFM 060 Oracle Data Load	Thursday, Septemb...
	HFM 070 Oracle Data Load	HFM 070 Oracle Data Load	Thursday, Septemb...
	HFM 080 Oracle Data Load	HFM 080 Oracle Data Load	Thursday, Septemb...
	HFM 090 Oracle Data Load	HFM 090 Oracle Data Load	Thursday, Septemb...
	HFM 100 Oracle Data Load	HFM 100 Oracle Data Load	Thursday, Septemb...
	HFM 190 Oracle Data Load	HFM 190 Oracle Data Load	Tuesday, Decembe...
	HFM 200 Oracle Data Load	HFM 200 Oracle Data Load	Thursday, Septemb...
	HFM 250 Oracle Data Load	HFM 250 Oracle Data Load	Monday, October 0...

HFM Entity Phases

Scenario: Actual Year: 2009 Period: Aug

View: Data View Top Member: Local [None] Update

Entity	Phase	Calc St.	ECA Status	Review Level	Pass / Fail	Validation	Review Level
US_CA.005		OK SC	✓	First Pass	✓	✓	Not Started
US_CA.Santa_Clara.010		CN	✓	First Pass	✓	✓	Not Started
Santa_Clara.010		CH	✓	First Pass	✓	✓	Not Started
Santa_Clara.040		CH	✓	First Pass	✓	✓	Not Started
Santa_Clara.050		CH	✓	Submitted	✓	✓	Not Started
Santa_Clara.060		CH	✓	First Pass	✓	✓	Not Started
Santa_Clara.070		CH	✓	First Pass	✓	✓	Not Started
Santa_Clara.080		CH	✓	First Pass	✓	✓	Not Started
Santa_Clara.090		CH	✓	Submitted	✓	✓	Not Started
Santa_Clara.100		CH	✓	First Pass	✓	✓	Not Started

Review HFM Data Feed Concurrent output

HFM Data Load

Request Id =47482469
Submitted by =FINANCE-JOBS
GL Period =NOV-10
Entity Range Low =010
Entity Range High =010
Run M2.0 Detail =Y
User Email Addresses =Dhananjay.pandit@coherent.com
Error Notify Email =
Run Hyperion HFM Process=Y
Run Hyperion PLN Process=Y
Submit for Next Month =N
Repeat Count (Days) =0
Run No of Times Daily =0
Hours Between Daily Runs=0
Run Details =

Backlog Date =28-NOV-09
Period Year =2010

Number Rows Deleted (XXCOH.XX_HFM_DATA Oracle Apps) =402
Number of M1.0 Rows Inserted =223
-----Following Entities have phase of Start in HFM -----
Entity =010

Number of M2.0 Rows Inserted =16
Number of M2.0 Depat Allocation Rows Inserted =163
Number of M3.0 Booking/Backlog Rows Inserted =1
Number of M2.5 Headcount Rows Inserted =8
Number of Invalid Entity Records =0
Number of Rows with null members or Invalid Entity/Account =0
Number HFM EPMA Data Interface Rows Inserterd =402
Number HFM EPMA Data Interface Rows Deleted =402

YTD Data Load into HFM EPMA Interface Complete









Entity Range:010:010

GL Period :NOV-10

HFM 010 Oracle Data Load Successful

HFM Calculation Complete
PLN PL Data Feed Request Submitted, Request Id =47482517
PLN SPC Data Feed Request Submitted, Request Id =47482518
PLN Balance Sheet Data Feed Request Submitted, Request Id =47482519
PLN Expense Data Feed Request Submitted, Request Id =47482520


Entity Reports (By Site/Entity Controllers)




/Entity proof reports			
Folders	!	* Name ▲	Type
[-] Root		 BS by Entity	Financial Reporti...
[-] .Corp Report Books		 OIE by Entity	Financial Reporti...
[-] .Entity Report Books		 P&L by Entity	Financial Reporti...
[-] 10Q Reports		 P&L by Product Family	Financial Reporti...
[-] 10Q Templates		 P&L by Product Family - LC	Financial Reporti...
[-] CLC Reports		 Validation Checks For Current Period	Financial Reporti...
[-] Entity proof reports		 Validation Checks Phase 1	Financial Reporti...
[-] Michele Qtr End		 Validation Checks Phase 2	Financial Reporti...
[-] Misc Corp reports			
[-] Planning Security Load			

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Submission of Entity (By Site/Entity Controllers)

View
Data View Top Member

Local 010  Update

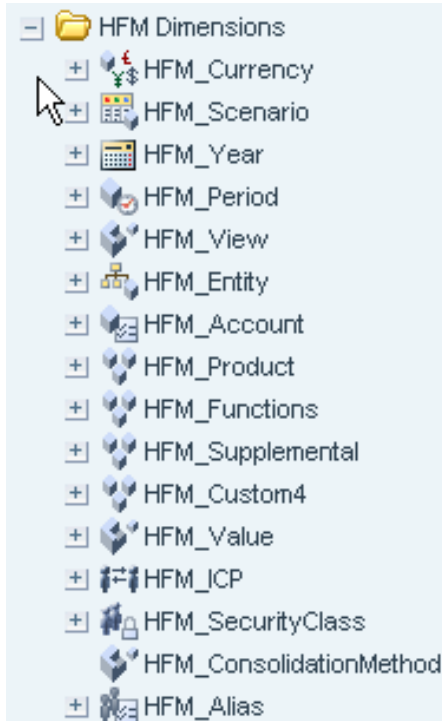
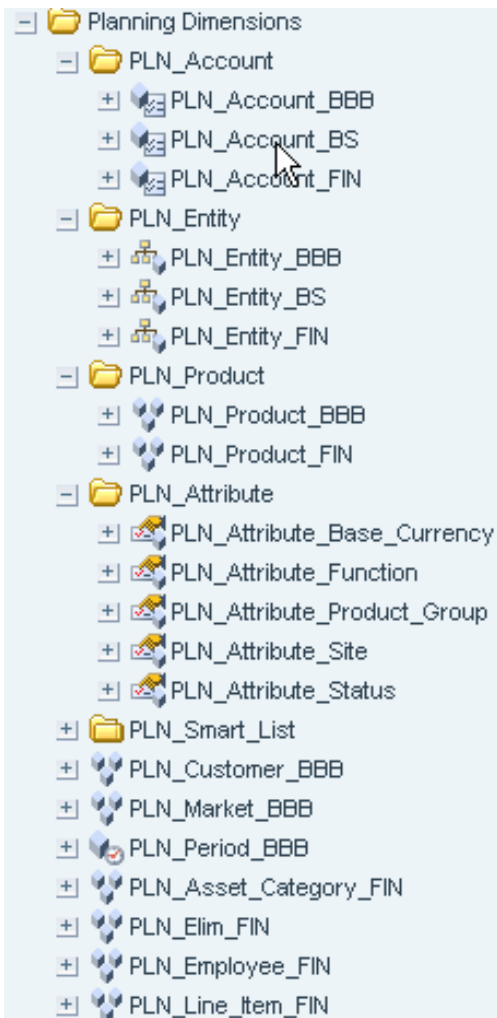
Phase			Phase1		
Entity	Calc Stat	ECA Stat	Review Level	Pass / Fail	Validation
010	OK SC		Submitted		

4

History			
Time	User	Action	State
12/4/2009 10:22:59 AM		Submit	Submitted
11/26/2009 7:32:35 AM		Start	First Pass

EPMA Metadata Dimension Model

HFM and Planning Dimensions



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EPMA Import Profile

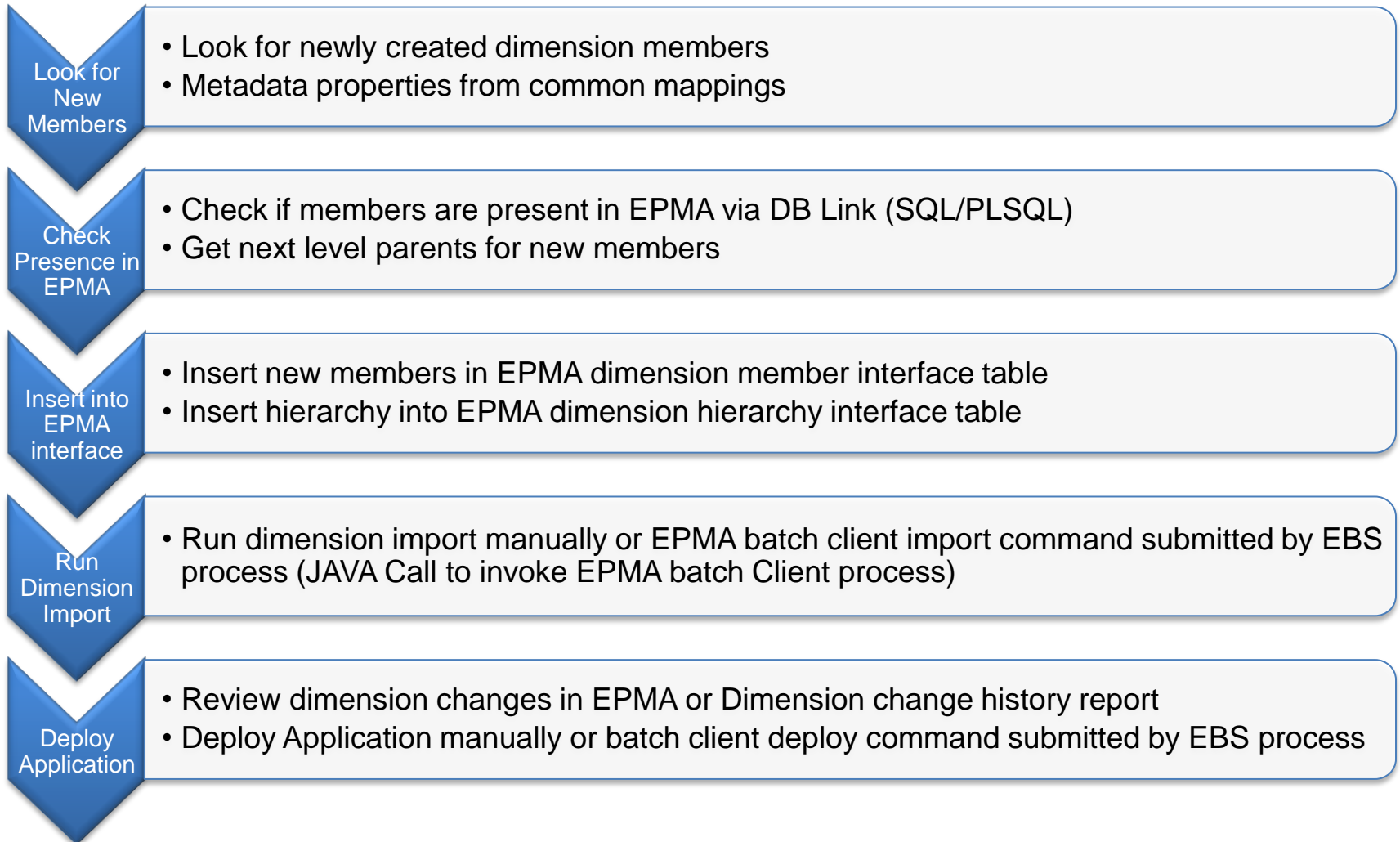
Import Profile based on Interface area defined

Import Dimensions			
Import Dimensions			
Name	Description	Author	Created
PLN_Employee_FIN Load	PLN_Employee_FIN Load	PanditD	Friday, October 03, 2008 7:48...
HFM Oracle Account	HFM Oracle Account	PanditD	Wednesday, October 29, 200...
EPMI System Profile 4	EPMI System Profile 4	PanditD	Wednesday, December 09, 20...

Interface Table column to Dimension property mapping

Interface Area	Shared Library	Remove Target Value For Mis
Description	Description	<input type="checkbox"/>
AccountType	AccountType	<input type="checkbox"/>
CalcAttribute	CalcAttribute	<input type="checkbox"/>
Consolidation	Consolidation	<input type="checkbox"/>
ConsolidationAccountType	ConsolidationAccountType	<input type="checkbox"/>
CurrencyCategory	CurrencyCategory	<input type="checkbox"/>
CurrencyConversion	CurrencyConversion	<input type="checkbox"/>
Custom1TopMember	Custom1TopMember	<input type="checkbox"/>
Custom2TopMember	Custom2TopMember	<input type="checkbox"/>
Custom3TopMember	Custom3TopMember	<input type="checkbox"/>
Custom4TopMember	Custom4TopMember	<input type="checkbox"/>
DataType	DataType	<input type="checkbox"/>
DefaultParent	DefaultParent	<input type="checkbox"/>
EnableCustom1Aggr	EnableCustom1Aggr	<input type="checkbox"/>
EnableCustom2Aggr	EnableCustom2Aggr	<input type="checkbox"/>
EnableCustom3Aggr	EnableCustom3Aggr	<input type="checkbox"/>
EnableCustom4Aggr	EnableCustom4Aggr	<input type="checkbox"/>
EnableDataAudit	EnableDataAudit	<input type="checkbox"/>

EPMA Meta Data Sync Process (EBS Concurrent Process)



Meta Data Sync Concurrent Process Submission Parameters

Diagnostics enabled

File Edit View Folder Tools Window Help

Submit Request

Run this Request...

Name: **Coherent EPMA Add Members**

Parameters:

Number of Days to Look Back: **60**

Dimensions: **HFM_Account**

Accounts:

PLN Entities:

PLN Products:

EPMA Dimension Import Profile: **HFM Oracle Account**

EPMA Application Name to Deploy: **PROD**

User Email Addresses (Comma Separated):

Error Notification Email Addresses (Comma Separated):

Run EPMA Batch Commands: **Yes**

EPMA Dimension import profile drop down (from EPMA via DB Link), process will run this import profile using EPMA Batch Client

EPMA Application Name drop down (from EPMA via DB Links), process will re-deploy this application using EPMA Batch Client

Meta Data Sync Concurrent Process Output

Add Dimension Members to EPMA Interface

Request Id =46462733
Submitted by =PANDITD
No of Days =60
Dimensions =HFM_Account
Email Addresses =

-----Inserting HFM Accounts into EPMA Interface-----

-----	-----
HFM Account	HFM Parent Account
-----	-----
05482	Gross_Inv>FG_Inv
05483	Gross_Inv>FG_Inv
05484	Gross_Inv>FG_Inv

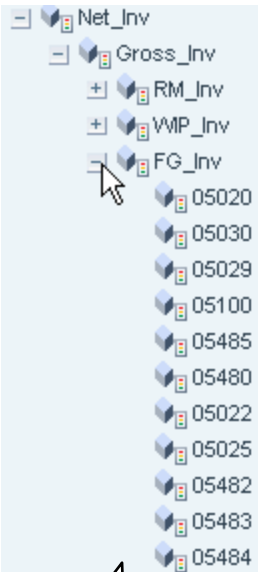
These three
accounts not
present in EPMA
are inserted as
children of
FG_Inv,

-----HFM Accounts insert into EPMA Interface Complete -----

Dimension Data into EPMA Interface Complete

"HFM Oracle Account" import Successful
EPMA Application "PROD" Deployment Complete

HFM Account Dimension after sync from Oracle EBS



Three accounts added to FG inv based on new accounts in EBS and Common Metadata Mapping

Category: Consolidation

Property	Value	
Name	05484	
Default Parent	FG_Inv	
Submission Group	1	✓
Alias		
User Defined 1		✓
User Defined 2		✓
User Defined 3		✓
Is ICP	N	✓
Security Class	ITadmin	↓
Calc Attribute		✓
Consolidation Account ...	Asset	↓
Is Calculated	<input type="checkbox"/>	✓
Is Consolidated	<input checked="" type="checkbox"/>	↓
Plug Account		✓
Custom1 Top Member	TOPC1	↓
Custom2 Top Member		✓
Custom3 Top Member		✓
Custom4 Top Member		✓
Number Of Decimal Pla...	0	✓
Enable Custom1 Aggre...	<input checked="" type="checkbox"/>	↓
Enable Custom2 Aggre...	<input checked="" type="checkbox"/>	↓
Enable Custom3 Aggre...	<input checked="" type="checkbox"/>	↓
Enable Custom4 Aggre...	<input checked="" type="checkbox"/>	↓
XBRL Tags		✓
ICP Top Member		✓
Uses Line Items	<input type="checkbox"/>	✓
Enable Data Audit	Y	↓

Some Metadata Properties are inherited and some are specifically set based on Common Metadata Mappings

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HFM Data/Metadata Mapping Example

Account Mappings QuickView -PROD:Pandit,Dhananjay (P) 1 -to- 3 of 3

[Add](#)
[Search](#)
[Customize](#)
[Links](#)
[Field-Lists](#)
[Layout](#)
[Charts](#)
 Ora Apps Live (CHPROD)

Update [Guid]	Account Map Id	Entity Range Low	Entity Range High	Account Range Low	Account Range High	Dept Range Low	Dept Range High	HFM Account	Sum Acct Flag	HFM Mult Factor	HFM Icp	HFM Product	Planning Product	Planning Account
Modify	10014	000	999	05020	05030	00000	99999	FG_Inv	N		[ICP None]	No_Product	Global_Product	FG_Inv
Modify	10015	000	999	05100	05100	00000	99999	FG_Inv	N		[ICP None]	No_Product	Global_Product	FG_Inv
Modify	10016	000	999	05480	05485	00000	99999	FG_Inv	N		[ICP None]	No_Product	Global_Product	FG_Inv

HFM Account Type	Hfm Sec Class	Hfm C1 Top Member	Hfm C2 Top Member	Hfm C3 Top Member	Hfm C4 Top Member	Pln Data Storage	Pln Time Balance	Pln Var Reporting
ASSET	ITadmin							
ASSET	ITadmin							
ASSET	ITadmin							

- Some Member Properties derived using mapping tables
- Most other properties derived using inheritance or defaults

Dimension Change History

- EPMA has limited reporting capability for reviewing changes
- Created Query to review dimension changes for Audit Reporting
- If changes have wider scope then review changes prior to Deploy

Dimension Change History

1 -to- 5 of 5										
Search Customize Links Field-Lists Layout Charts Hyperion EPM Oracle Database(Primary Database)										
User Name	Library Name	Dimension Name	Member Name	Member Description	Description	Property Name	From Value	From Origin	To Value	To Origin
PanditD	Master	HFM_Product	DDF		Insert Member				DDF_Total	Unknown

To Origin	Transaction Action	Transaction Level	Original Member Order	New Member Order	Detail Id	Transaction Id	Tran Action Date
Unknown	InsertMember	Result		3	1	232867	01-DEC-2009 18:26:53

Benefits of Integrated Hyperion EPM (Planning, HFM, EPMA)

- Automated, tightly integrated Financial Close
- Improved metadata, dimensional management
- Automated data integration with same source data feeds used for Planning and HFM
- Improved timing and data consistency
- Reduced Financial Close cycle-time
- Improved budget, forecast, actual process & reporting
- Improved Management Reporting
- Improved Sox 404 Compliance
- Eliminate batch processes to run Planning load & calc scripts for actual data loads

Oracle Customer Board Advisory Board Member Forum (EPMA)

Desired EPMA Improvements suggested

- Parameter driven EPMA Process to Submit MAXL calls Clear/Calculate Essbase Data and be able to string them in a sequence using task flow
- UI to set which properties are inherited from Parent in Master/Shared Library
- EPMA Dimension Library at least last action UNDO capability
- Better reporting to monitor dimension member changes
- Ability to call Batch client process via JAVA API call or web service
- Ability to Clone environments, e.g. make a copy of Prod to Dev instance
- Copy and Clear data capability for EPMA Based applications, should be able to save the setting for subsequent call.
- PL/SQL/Java API call to check for presence of a Member in specified dimension

Contact Information

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