

Integrating Essbase & OBIEE+ with Your Data Warehouse Strategy

OAUG Connection Point - Enterprise Performance Management Conference

***“Providing Excellence in Education & Training to the Oracle Hyperion and
Business Intelligence Communities”***

February 23 – 24, 2010

Hyatt Regency, Jersey City, New Jersey

Five Tracks

Budget,
Forecasting &
Planning

Financial
Consolidations &
Reporting

Business
Intelligence &
Analytics

The Office of the
CFO

EPM Product
Roadmap

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ODTUG KALEIDOSCOPE



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Marriott Wardman Park Hotel Washington, D.C. June 27-July 1



ANNOUNCING ODTUG KALEIDOSCOPE 2010 IN WASHINGTON, D.C.

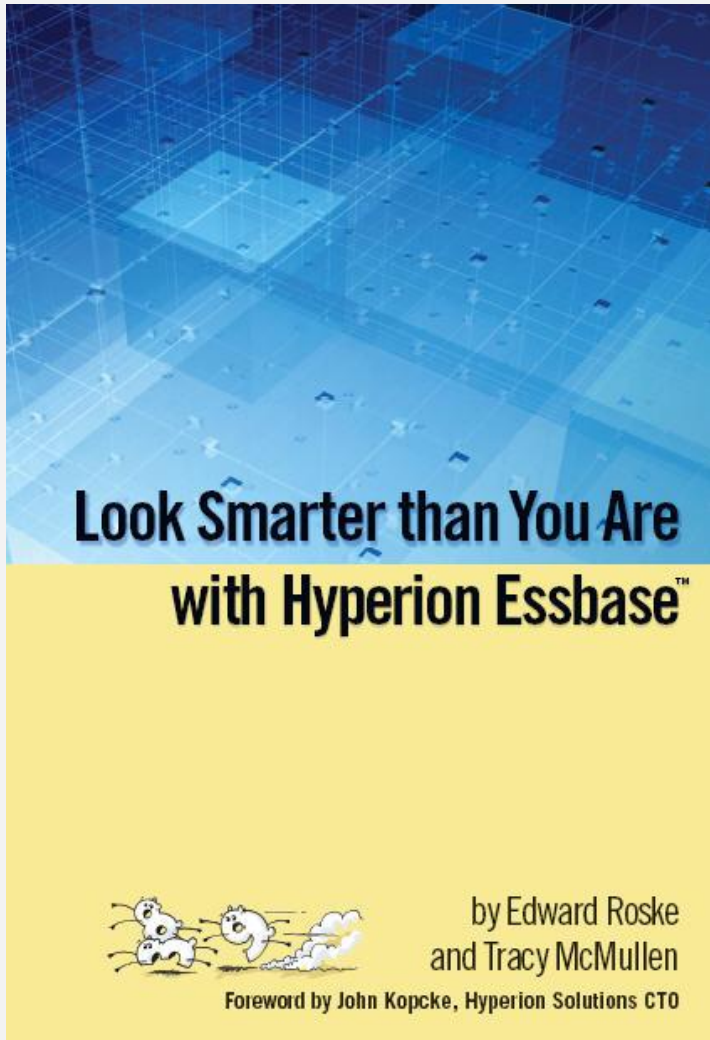
TOPICS

- ▶ Application Express
- ▶ Database Development
- ▶ Essbase
- ▶ Hyperion Applications
- ▶ Hardcore Hyperion
- ▶ Middle Tier and Client-Side Development
- ▶ Oracle Business Intelligence and Hyperion Reporting
- ▶ SOA and BPM
- ▶ Other

- ▶ **MARK YOUR CALENDARS NOW - JUNE 27-JULY 1**
- ▶ **BE A PRESENTER - SUBMIT AN ABSTRACT**
- ▶ **GO TO WWW.ODTUGKALEIDOSCOPE.COM FOR MORE DETAILS**

- **2008 & 2009 Oracle Titan Award winner - EPM Solution of the year**
- 2008 Oracle EPM Excellence Award
- 2009 Oracle EPM/BI Innovation Award
- One of the fastest growing companies in the world (Inc. Magazine, '08 & '09)
- Two of the three Hyperion Oracle ACE Directors in the world
- Founding Hyperion Platinum Partner; now Oracle Certified Partner
- Focused exclusively on Oracle Hyperion EPM software
 - Consulting
 - Training
 - Infrastructure and Installation
 - Support
 - Software sales





- 5 Hyperion Books Available:
 - *Essbase (7): Complete Guide*
 - *Essbase System 9: Complete Guide*
 - *Essbase System 9: End User Guide*
 - **Smart View 11: End User Guide**
 - **Essbase 11: Admin Guide**
 - **eBooks available on Amazon Kindle**
- Just out!
 - Hyperion Planning for End Users
- Coming Soon
 - Hyperion Planning for Admins (days now...)
 - Hyperion Financial Management (Q1 2010)
- To order, check out www.lulu.com

Disclaimer

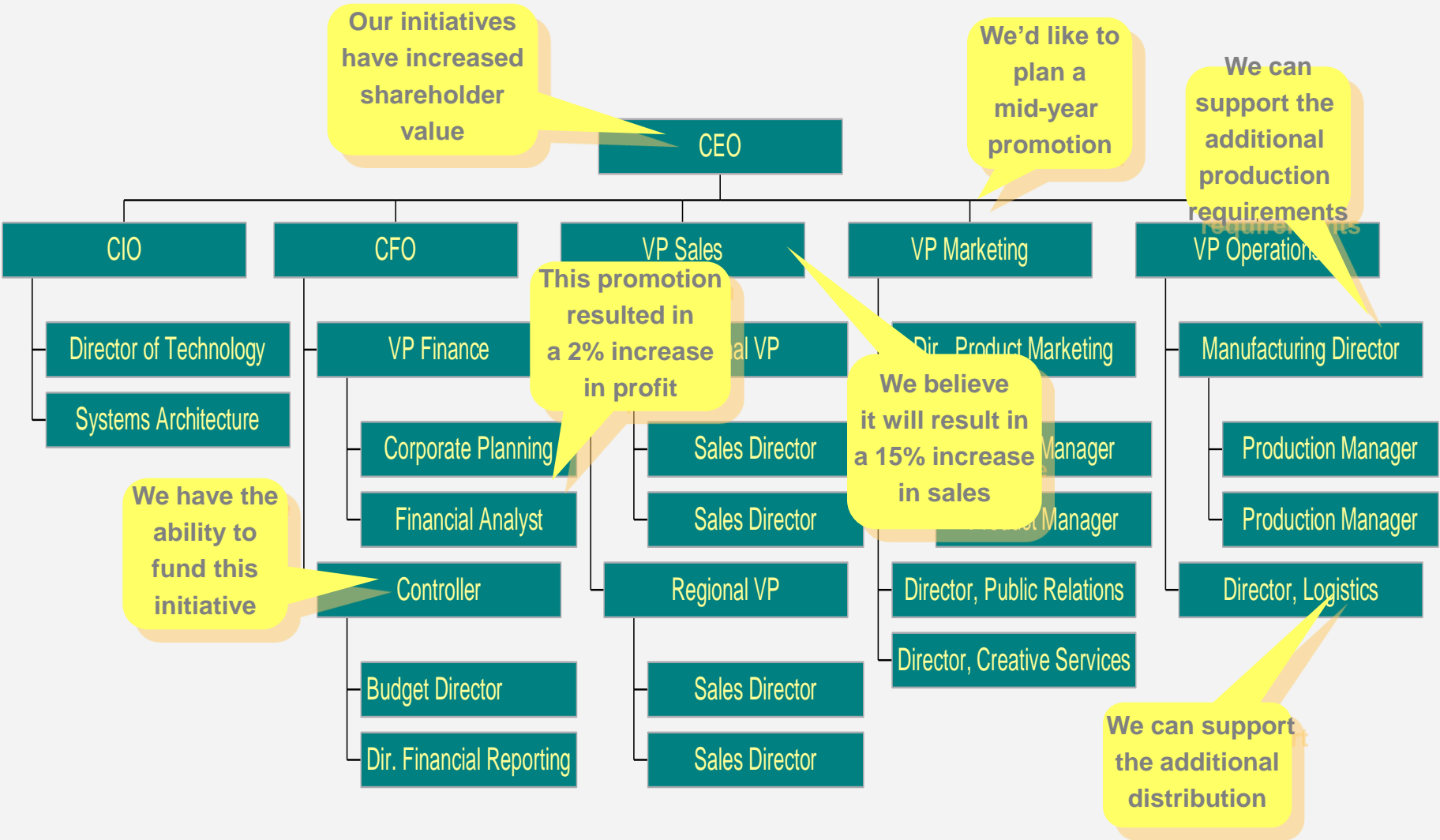
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- The Problem – Common Data Warehouse Issues
- The Solution
 - OBIEE+ and Oracle Business Intelligence Server
 - Essbase
 - One Presentation Layer - Reporting and Analysis Tools
- Steps to Integrate Essbase and OBIEE+ with your Data Warehouse
- Solving Problems / Summary
- QA



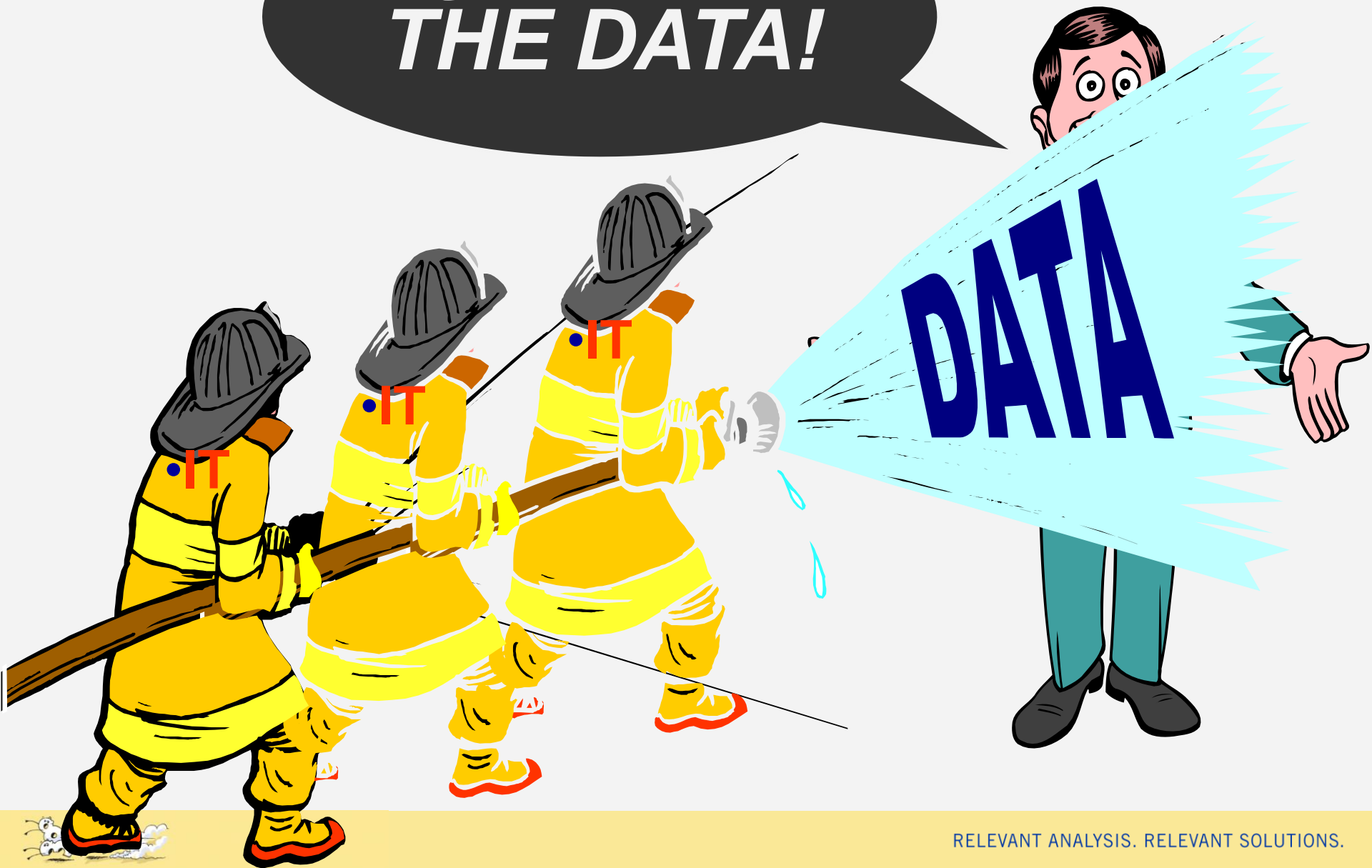
What Are the Questions?



A 3D perspective view of a blue grid with small cubes at the intersections, creating a sense of depth and data structure.

Data is Everywhere

**GIVE ME
THE DATA!**



Where is the data?

- Ideally enterprise data warehouse
- Business unit data warehouses (does your company have more than one?)
- Other relational databases
- Source systems
- Spreadsheets, Access databases

- If you own Hyperion,
 - Essbase
 - Planning
 - Financial Management

- In real life, probably many different places across your organization



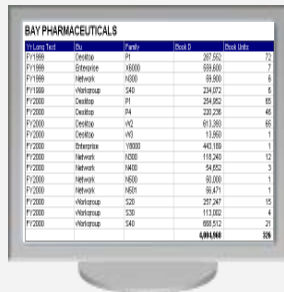
Common Data Access Issues

- No single strategy for information delivery
- Data is stored in a data warehouse but no real easy way for users to get to it
 - IT queries vs. End user queries
 - No analytic capabilities
 - Limited write back and what if scenarios
- Silos of information with a multitude of tools and technologies for accessing that information
- Limited visibility to metrics for operations management and budget evaluation
- Limited correlations and integrations of data across systems
- Meaningless data results
 - Not what the user was looking for
 - Doesn't help improve enterprise performance
- IT on one side of the house | End users on the other side
- Different user communities have different interface & delivery needs



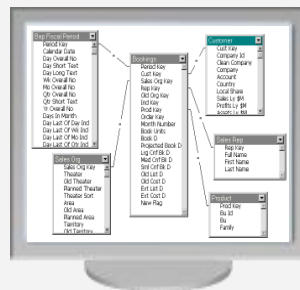
Different User Communities Have Different Interface & Delivery Needs

Enterprise Reporting



IT Staff

Power Analysis



Data Experts

Web Reporting & Analysis



Analysts

Performance Dashboards



Executives & Managers

Production Reports

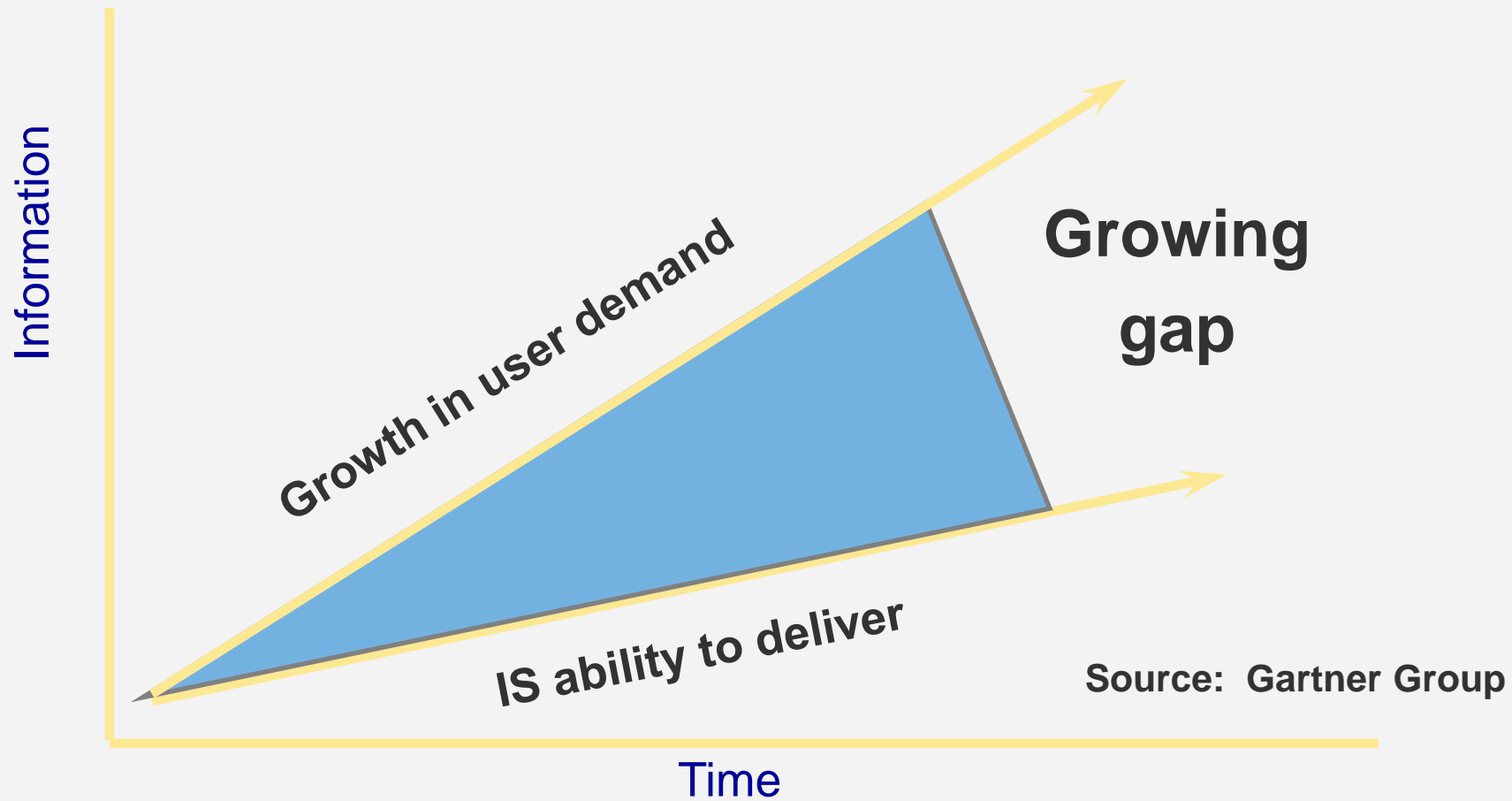
Query & Analysis



- Changes to data warehouse can be time consuming
- Politics of what should be stored
- New sources require
 - Modeling
 - ETL
 - Integration to overall data warehouse design
 - Mart design
 - Reporting and analysis
 - Hardware / underlying architecture
- Update frequency (not fast enough for the end users)
- Building aggregate structures for reporting and analysis
 - Helpful for end users but ...
 - Maintenance nightmare
- More expensive to maintain a data warehouse than to build one?



Knowledge Gap



Common Data Warehouse Issues

- Ever changing definition of attributes
- Limited data marts; limited user views
- Common dimensions, common definitions standards



Maybe we should build more databases in our data warehouse?

INFORMATION

Finance

Marketing

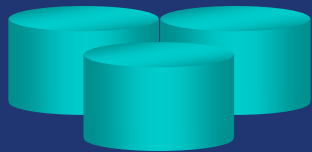
IT

Sales

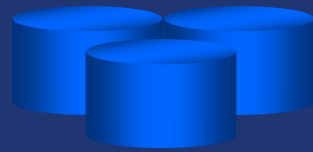
Manufacturing

Executives

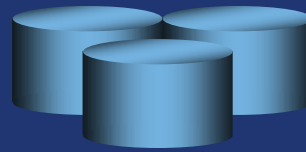
DATA



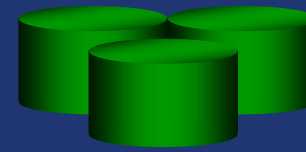
Financial



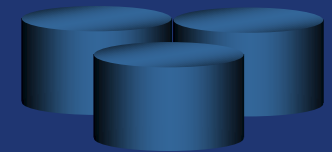
HR



Sales



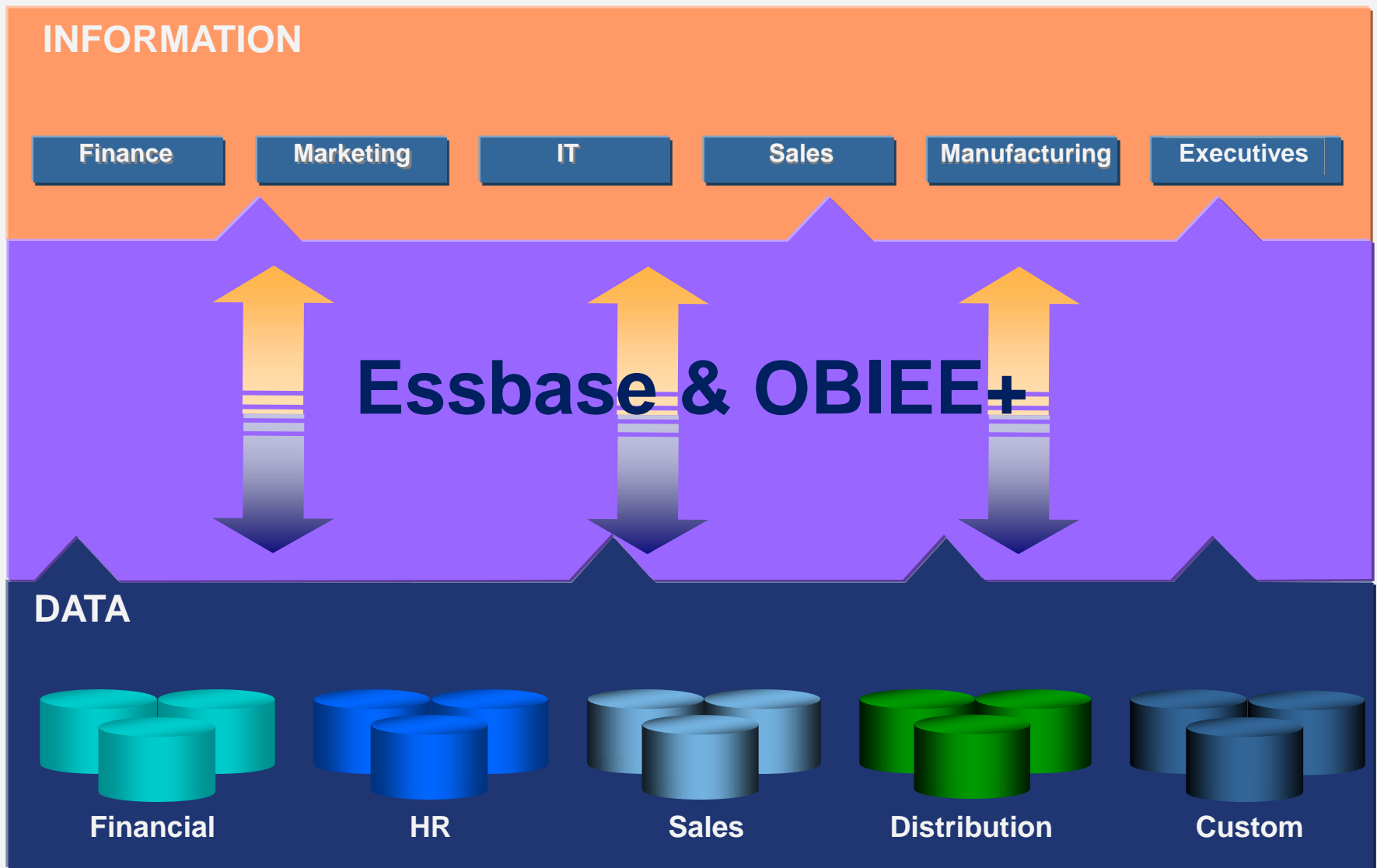
Distribution



Custom



Closing the Knowledge Gap



Integrate Essbase and OBIEE+ with your Data Warehouse

- Essbase and OBIEE+ are the enabling technologies to:
 - Help close the knowledge gap
 - Address and resolve a number of the common data warehouse issues
 - Event driven business intelligence
 - Pervasive use
 - Real time, predictive data



Integrate Essbase and OBIEE+ with your Data Warehouse



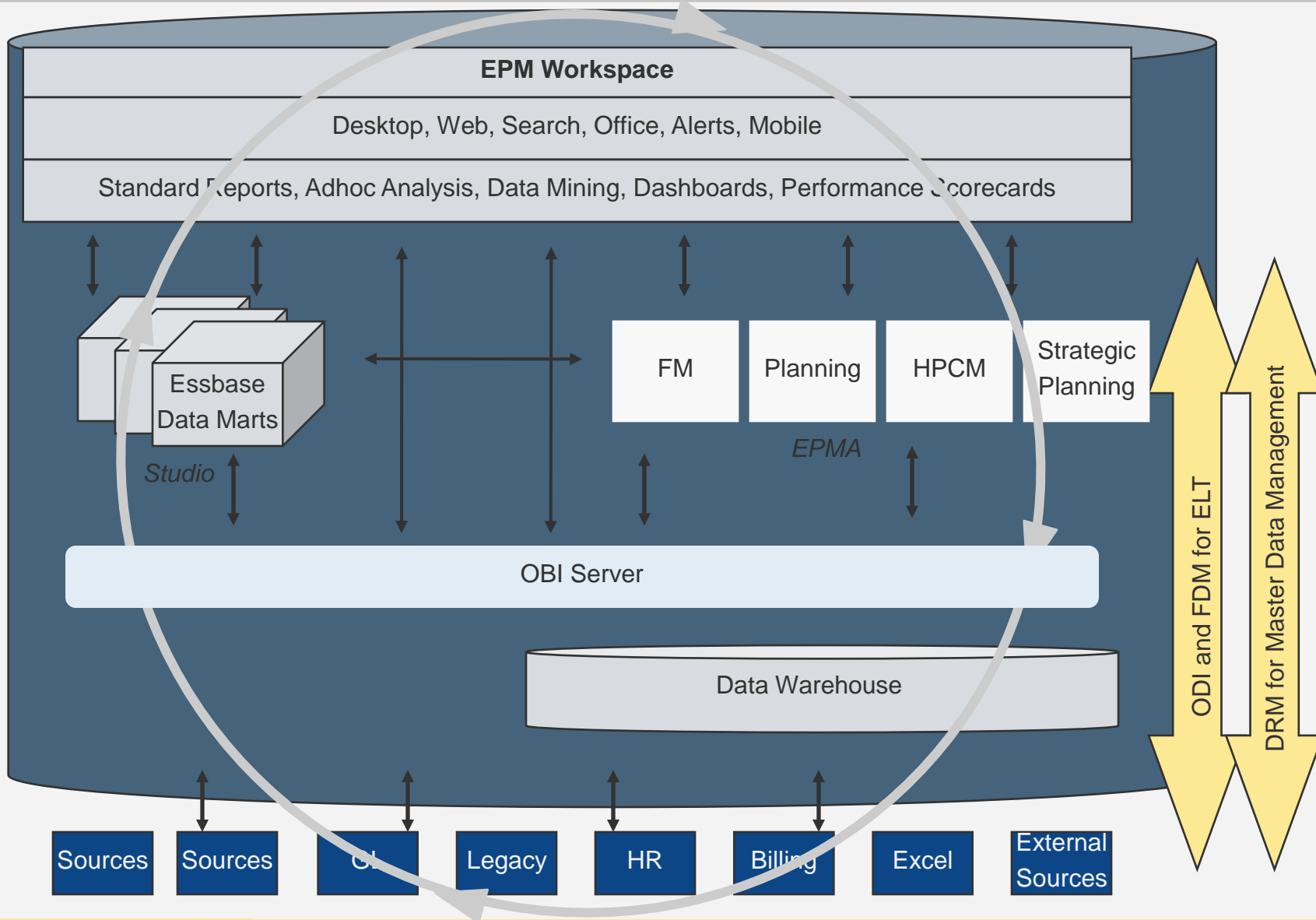
- Create an Information Warehouse (vs. Data Warehouse)
 - Information is meaningful sets of data, grouped together for the purposes of reporting and analysis
 - Includes your relational data warehouse, Essbase and OBIEE+ to achieve successful information delivery
- One presentation layer
 - Includes reporting, analytics, dashboarding, and data mining
 - Behind the scenes may access a number of different databases and servers but is one point for end user community



Integrate Essbase and OBIEE+ with your Data Warehouse



Information Delivery Platform



What is Enterprise Performance Management?

- By developing this Information Delivery Platform, you can better supports the enterprise performance management cycle

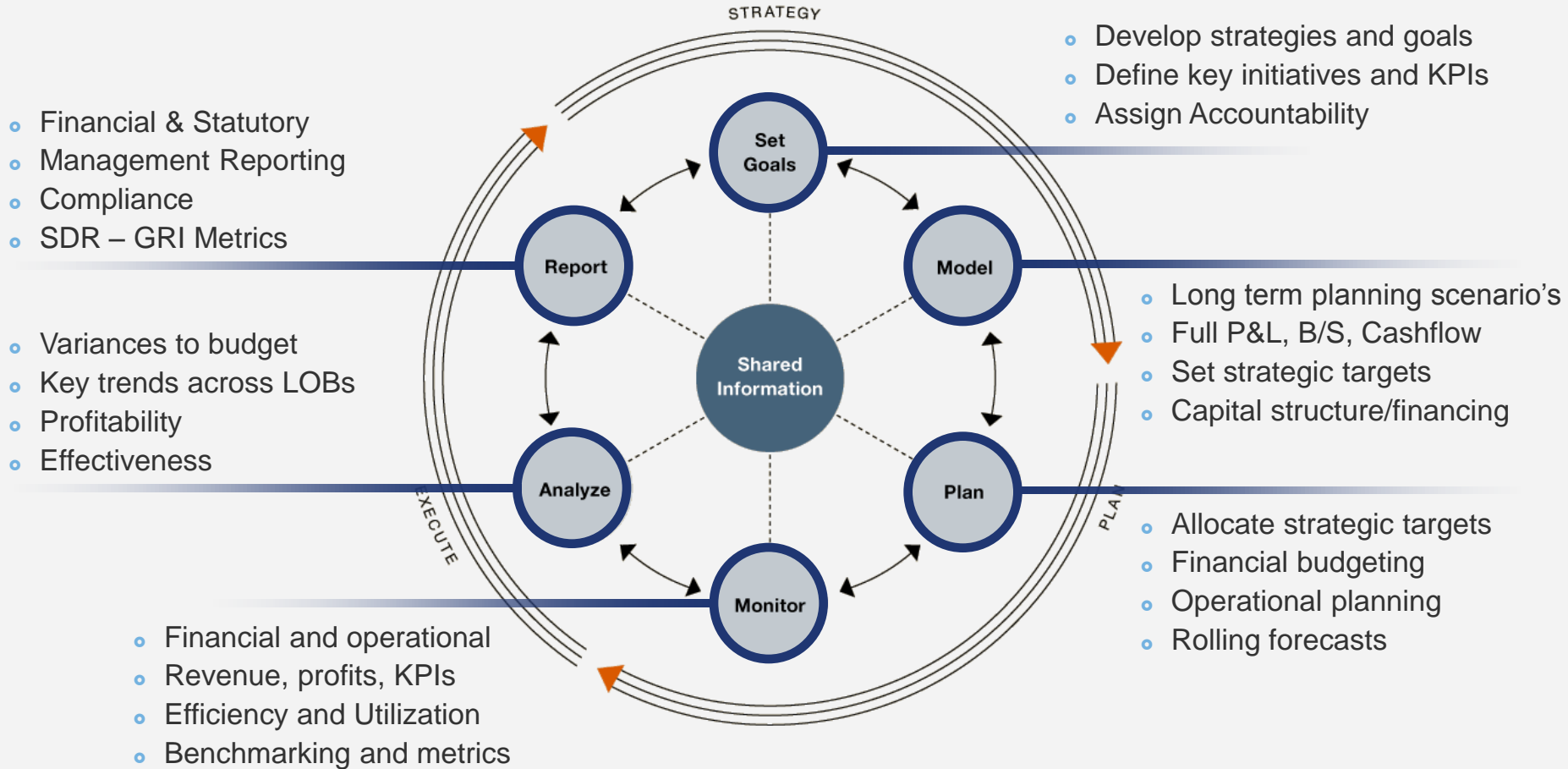
“A set of processes that help organizations optimize their business performance. It is a framework for organizing, automating and analyzing business methodologies, metrics, processes and systems that drive business performance.” – Wikipedia

- EPM systems are used to proactively manage the business
 - Tie operational reporting and analysis to financial plans and reports
 - Provide insight into results
 - Provide relevant, timely and actionable information for better business decision making



Oracle's Enterprise Performance Management System

This new Information Delivery Platform supports the enterprise performance management cycle.

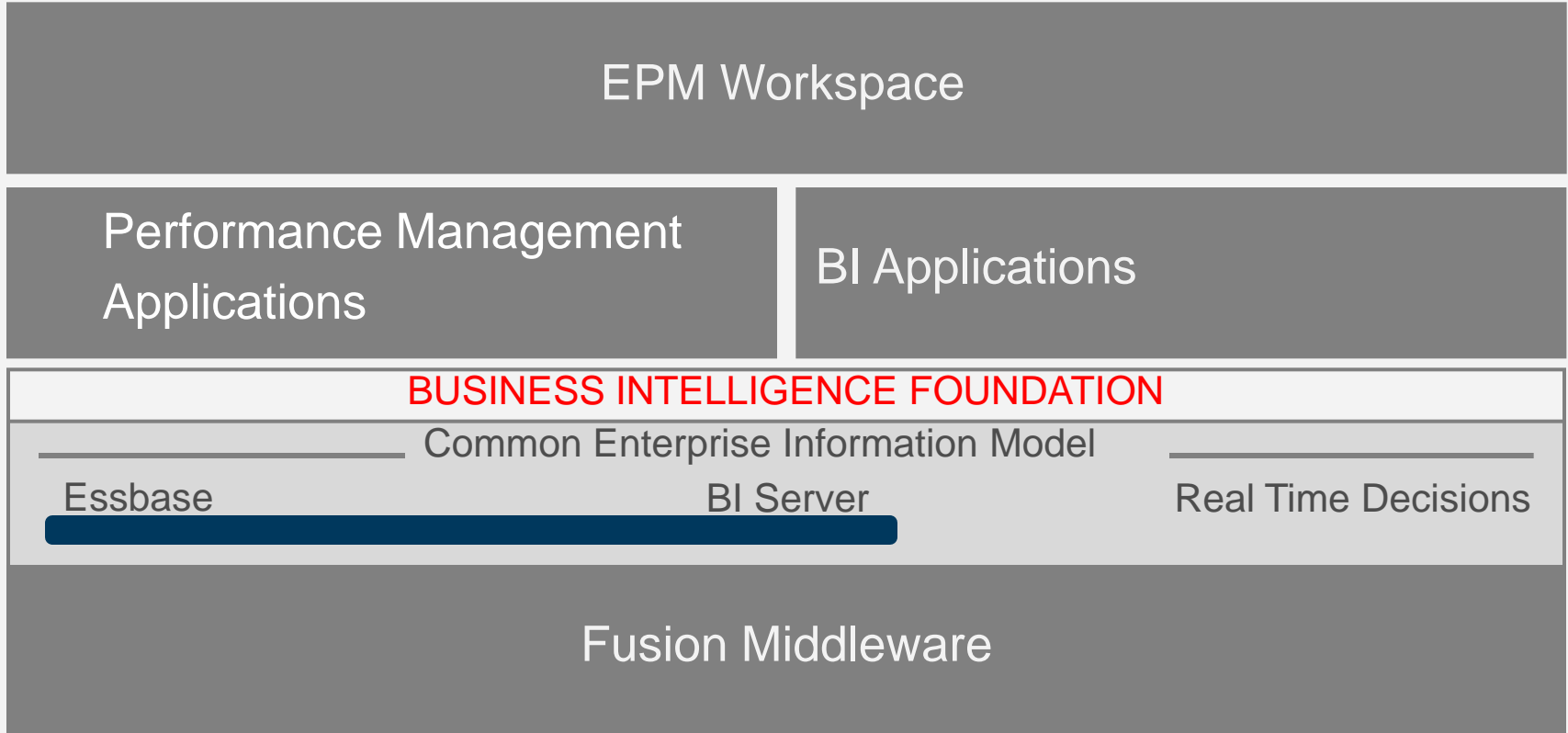




The Enabling Technologies

What the heck is Essbase and OBIEE+?

Highly Scalable BI Foundation



OLTP & ODS
Systems



Data Warehouse
Data Mart



OLAP



SAP, Oracle, Siebel,
PeopleSoft, Custom



Excel
XML



Business
Process

From Oracle



Key Component for Successful Information Delivery

- Common Enterprise Model
 - Model once, deploy everywhere
- Remove silos of information
- Bring information together and present to users in terms they understand
- Information is available on demand



Enabling Technologies – OBIEE+ and Essbase

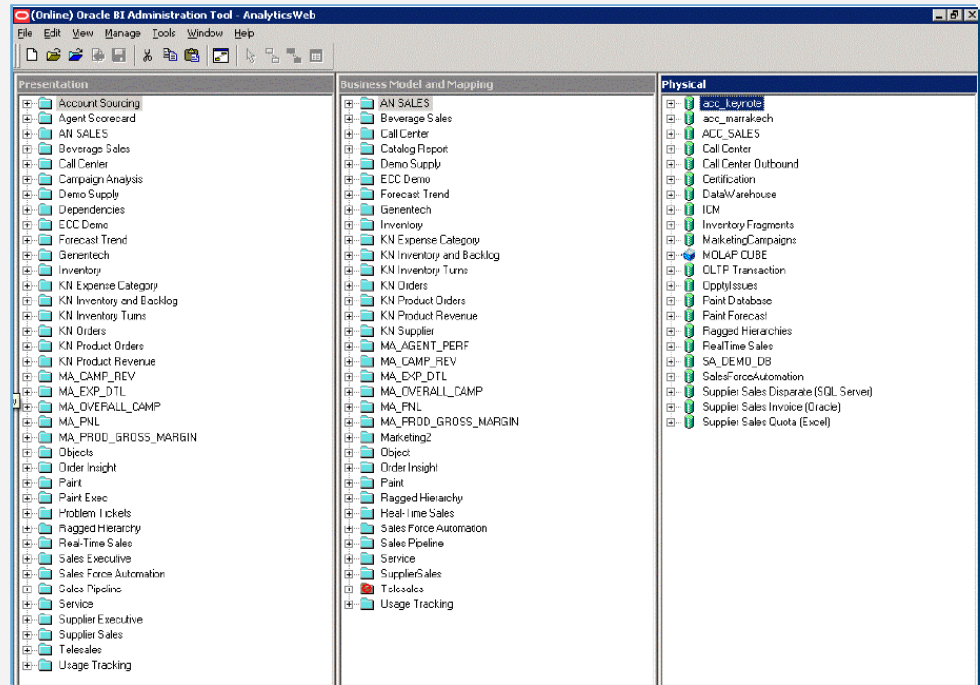
Product	Overview
BI Server	Create a virtual data warehouse of many sources Data resides in the transaction systems (could be a burden on transaction systems)
Answers	Analysis over the web for OBI sources
Dashboards	Easy-to-create and use dashboards for OBI Sources
Delivers	Delivery to emails, dashboards, web services Alerting capabilities
Mobile Analytics	Content access via mobile devices
BI Publisher	Formatted reports, pixel perfect reports Not a tool for analysis
Financial Reporting	Printed, formatted reports for Oracle EPM System (Essbase, FM, Planning)
Interactive Reporting	Analysis, reporting and dashboards for relational and Essbase sources
Web Analysis	Analysis and dashboards for Oracle EPM System (Essbase, FM, Planning, HPCM)
SQR Production Reporting	Pixel perfect, large volume reporting
Essbase	<i>The multidimensional database engine</i>

OBIEE

OBIEE +



- Scalable, efficient query and analysis server
- Provides integration of many sources
- Intelligent caching services
- Calculation and integration engine
- Intelligent request generation and optimized data access services
- Three layers
 - Physical
 - Business Model /Mapping
 - Presentation



- Federates the data with a virtual schema
- Virtual schema is created
- Moving the data “virtually”
- Do everything you do in your data warehouse without building the data warehouse physically
- Combine tables across sources (columns + columns)
- Combine data in tables sources (rows + rows)
- Perform transformations
- Aggregate tables for performance improvements
-



- *BI Server doesn't store data but logically and efficiently organizes it for query and reporting*
- Because BI Server is pulling data dynamically, real time information access is possible for end users
- Think of the value placed into the users' hands; real time data access side-by-side with historical information for reporting and analysis



Combining Systems and Data Sources

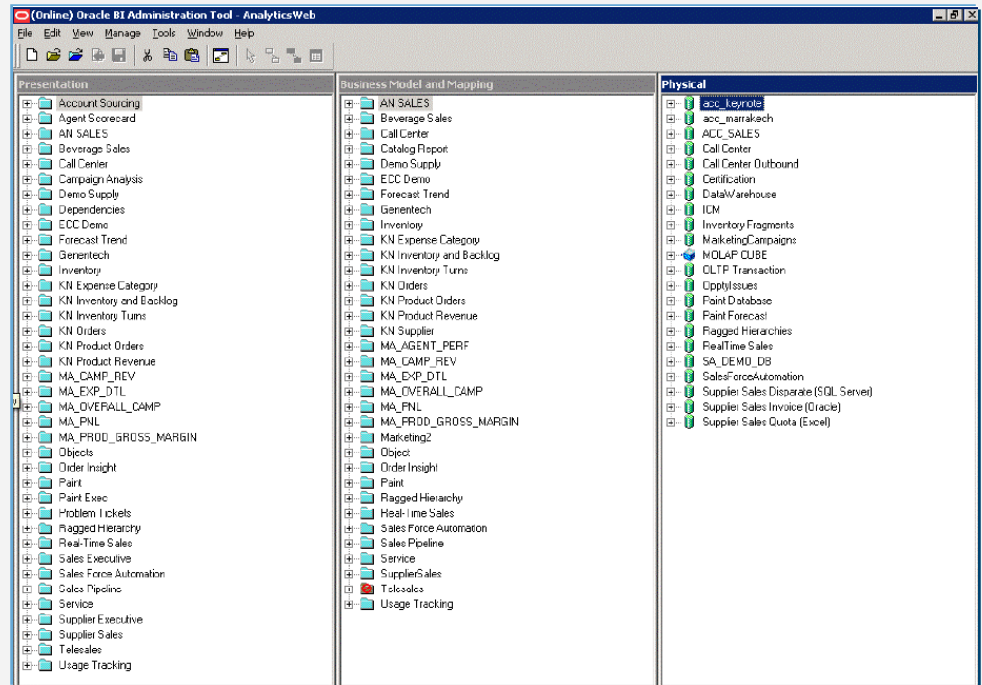
- Imagine you need to combine sales data from the GL and customer data from the CRM system and you don't have the resources or budget for a full scale data warehouse implementation
- BI Server can easily connect to and unify this information into one virtual schema for reporting and analysis
- Do we recommend sourcing directly against transaction systems?
- Behind the scenes, efficient logical SQL is executed against the sources and presented in a user friendly format



- Take complicated technical structures and terms and putting them into a logical, business view of the information with business terminology
- CUSTDSC is Customer Name?
- Within the BI Server physical layer, the CUSTDSC is queried but in the presentation layer, the designer has abstracted the field and renamed it Customer Name
- BI Server can combine tables across sources, adding the customer contact column from CRM to the main customer table in the GL into one logical table
- BI server can combine data in tables across sources, for example, joining sales data from multiple systems in a distributed environment into one main fact table



- Three layers
 - Physical
 - Business Model /Mapping
 - Presentation



- Define the data sources
 - Manual
 - Importing the metadata into the BI Server
- Join relationships are defined as necessary

- Sources
 - Flat files
 - XML files
 - Excel
 - Relational sources
 - Essbase
 - Almost any source



Business Model and Mapping Layer

- Define the logical or business view of the data in the Business Model and Mapping layer
- After you have created your sources in Physical layer
- First step in taking more complex IT structures and multiple sources and grouping them into models or content focused areas using business terminology
- Define fact tables (tables that contain the measures or “numbers”) and dimension tables (Time, Product, Customer)
- Create logical tables, columns, dimension hierarchies and joins to create the business view of the data



Business Model and Mapping Layer

- Create calculated columns and measures
- Define the business logic once for use across any query or report.
- Watch out - calculations can be expensive from an end user performance standpoint



- Final layer that further adds abstraction over the Business Model and Mapping layer
- What the end user sees
- Organize the columns into logical catalogs and folders, customizing naming for specific user groups as needed
- Make the information as easily and logically accessible as possible
- Catalogs show different views of a business model to different users via presentation tables which look like folders to the end user perspective
- Folders contain the grouping of columns that make sense to the end user
- Users can easily navigate through the catalogs and folders, picking and choosing the desired data elements and pull them into a detailed report, pivot report, chart or graph, apply filters or add in report side calculations



epm111 - Remote Desktop



Internet Explorer



b14198.pdf



biadmin.txt



Extract4_72...



MigrationDe...



Windows Explorer

Start | C:\OracleBI\server\Repo...



- Key Strength
 - Easy to do
 - Real time data
 - Flexible
- Key Cost / Disadvantage
 - On the fly queries so possible performance issues (because everything is virtual)
 - Some tools to minimize performance issues (caching)



OBI Server vs. Data Warehouses

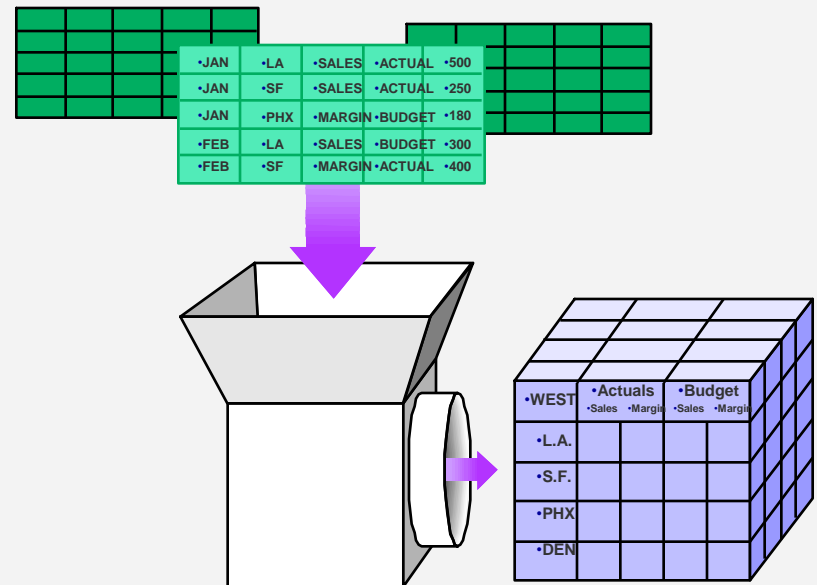
- Data warehouse or BI Server? Both!
- Leverage BI Server to create a common enterprise model
- Pull in data warehouse and other sources into one model
- Quickly add new sources (without all of the infrastructure required to add to the physical data warehouse)
- Present historical data from data warehouse and real time “daily” data from the transaction server
 - Minimal impact to transactional system (small query just pulling today’s data)
- Create end user presentations with their terminology and business definitions
- Remember – BI Server is not an ETL tool



- Essbase is THE online analytical processing solution
- Broadest Analytic functionality
 - Drill, pivot, select, compare, rank, sort, filter, group, stack, calculate, annotate and write back
- High-speed reporting of information
 - Speed of thought
 - Reporting tools are enabled by the outline
 - Follow the business thought / organization view of the data
- Highly advanced calculation engine
 - Aggregations, allocations, conditional, procedural, subsets
- Enterprise-wide data analysis
- Optimized storage



- Multidimensional cubes
- No tables and columns
- Database definition is defined in the outline
- Dimensions
 - Common grouping or hierarchy of master data
 - Organization
 - Product
 - Accounts



Advantages of Hyperion Essbase

Optimized data storage

Fast reporting and analysis performance

Top down analysis

Limitless dimensions and members with ASO

Flexible

Dimensional view

Advanced Calc Engine

Shared

Secure

Fast – both administrators and users

Advanced Analytics

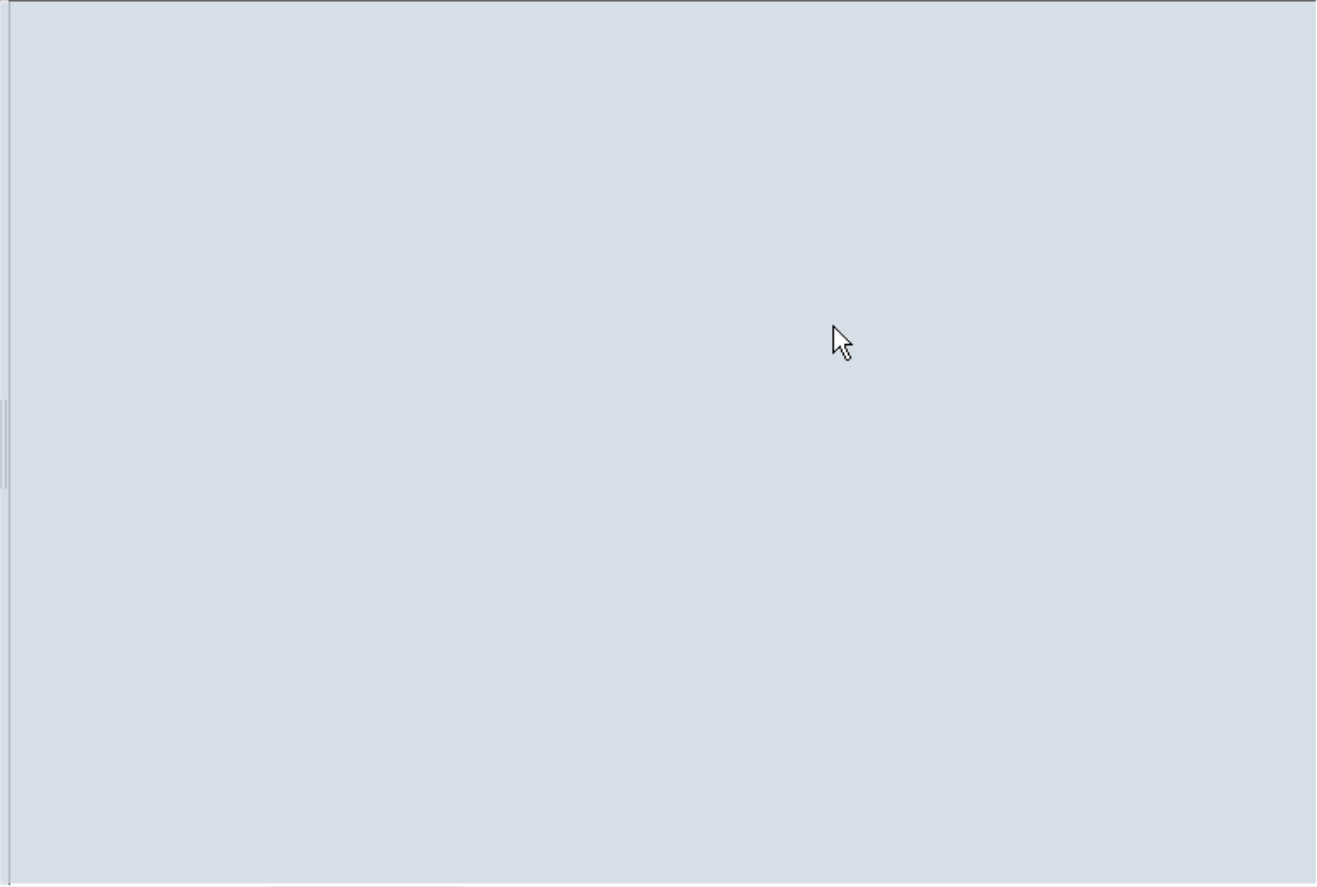
Scalable





File View Organize Tools Help

- Enterprise View
 - Administration Servers
 - Essbase Servers
 - Hyperion Provider Servers
 - Business Rules
 - Smart Search Indexers



Enterprise View BR Language BR Outline

Server Name: epm11, UserName: admin
Business Rules Login Successful
Essbase Server: epm11 com.essbase.eas.essbase.defs.ServerCommands.Connect November 17, 2008 9:57:30 AM CST Succeeded

Messages



Fast Reporting and Analysis

- Web enabled reporting and analysis tools via a common Workspace
- Microsoft Office (Excel, Word and PowerPoint) integration with Essbase information
- End User Capabilities (the short list):
 - Drill down and up, pivot, and more
 - Advanced analytics – sorting, traffic lighting, filtering, and more
 - Data submission by end users
 - Business rule launch capabilities by end users
 - Highly formatted reusable reports
 - Filtered views for a personalized analysis and reporting experience (Smart Slices)



Book1 - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Add-Ins Hyperion

Activate ▾ Zoom In Keep Only Select Form Refresh Offline Expand
 Reset Zoom Out Remove Only Instructions Sync Back To Server Collapse
 Connect Pivot Take Offline Lock Refresh Submit

Connections Ad Hoc Analysis Forms Review

B2 Margin

	A	B	C	D	E	F	G	H	I	J	K	L
1			Year									
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[Book1]Sheet1 ×

Market ▾

Actual ▾

Refresh



- Data warehouse or BI Server? Both!
- Essbase is part of your data warehouse solution
- Essbase provides the set of multi-dimensional marts for fast reporting and analysis
- Built for top down analysis allowing you to remove the complicated aggregation structures in your data warehouse
- Provides what if'ing and scenario writebacks from end users
- Line is blurring between what should be stored relationally vs. multi-dimensionally
 - 20+ dimensions / millions of members in ASO Essbase
 - Drill through capabilities with Essbase Studio and FDM
 - Relational cubes – XOLAP



There is some overlap... Essbase versus BI Server

Essbase		BI Server
Optimally stores data for reporting and analysis	Data Storage	No data stored; Data is dynamically moved through the BI Server
Winner	Query Performance	Good but head-to-head, Essbase wins out
Winner	Analytic Capabilities	Good but head-to-head, Essbase wins out
Possible in some cases but definitely a weakness for Essbase	Rows and Columns Reporting	Winner
Winner	Analytic Reporting	Good but head-to-head, Essbase wins out
Good, especially with Essbase Studio, but head-to-head, BI Server wins out	Unified Sources	Winner
Hands down, BI Server is the best	Definition of a Common Enterprise Model	Winner
Good with options like trickle feeds and XOLAP but head-to-head, BI Server wins out	Real Time Data Access	Winner
Winner	Calculation Capabilities	Technically possible but doesn't compare to Essbase
Winner, native to Essbase functionality	End User Write Back	Technically possible but requires configuration steps



I have Essbase. Why do I need BI Server?

- Federated data consolidated into virtual schemas especially if I don't have a data warehouse or I have many data warehouses
- Best mechanism for unifying sources and creating a common enterprise model
- Provides relational reporting for rows and columns detailed reporting and text reporting
- Report on both relational and flat Essbase data in one tool
- Report on both relational and flat Essbase data at the same time
- Join both relational and flat Essbase data for analysis



I have OBI Server. Why do I need Essbase?

- Fast, powerful advanced analytics against large volumes of data
- OBIEE is a strong tool but ... “You don’t know what you’re missing” in reporting and analysis
- Built in write back capabilities to any level in an Essbase database
- Powerful calculation engine



I have both Essbase and OBI Server – What should I do?

- Most importantly remember it is not an either / or discussion
- Take advantage of strengths of both tools
- Create virtual schemas with BI Server to unify sources
- Build cubes in the Essbase Studio with the BI Server as a source
- Use BI Server for relational reporting needs
- Use Essbase for advanced analysis, fast performance, calculation engine and more
- Integrate the solutions together
- Use the Workspace to present information via the Web for both BI Server and Essbase
- Use Smart View against both Essbase and OBIEE
- Look for full Essbase support in Answers and Dashboards coming soon in 11g



One Presentation Layer for Reporting and Analysis

Must Haves for End User Presentation

Consistent

Easy to use

Interactive

Flexible

Fast

Seamless

Efficient

Thin client

Minimal
training
required



Reporting & Analysis Needs

- Ad Hoc Querying
 - Easy to use adhoc capabilities – drag and drop, drill, pivot, filter
 - Advanced analytic capabilities like traffic lighting, filtering, etc.
- Dashboards
 - Present key information in dashboard format, including key metrics and graphs
 - Drill / link capabilities to additional detail and information
- Standard Reports
 - Formatted, printable reports
 - Dynamic reports based on end user selections
- Office Integration



- Single thin client environment bringing all of the Hyperion products together in one tool
- Standardizes the delivery of business intelligence
- Provides a centralized repository
- Meets full range of reporting requirements
 - Empowers users with personalized dashboards
 - Provides advanced analytic capabilities
 - Accesses any data source – relational, multi-dimensional, file based systems
- “Windows on the Web”
- Personalize document preferences, search explore and access, “Save a favorite report”



One Presentation Layer to Access Relational, Multi-dimensional and EPM Content

Folder for organization

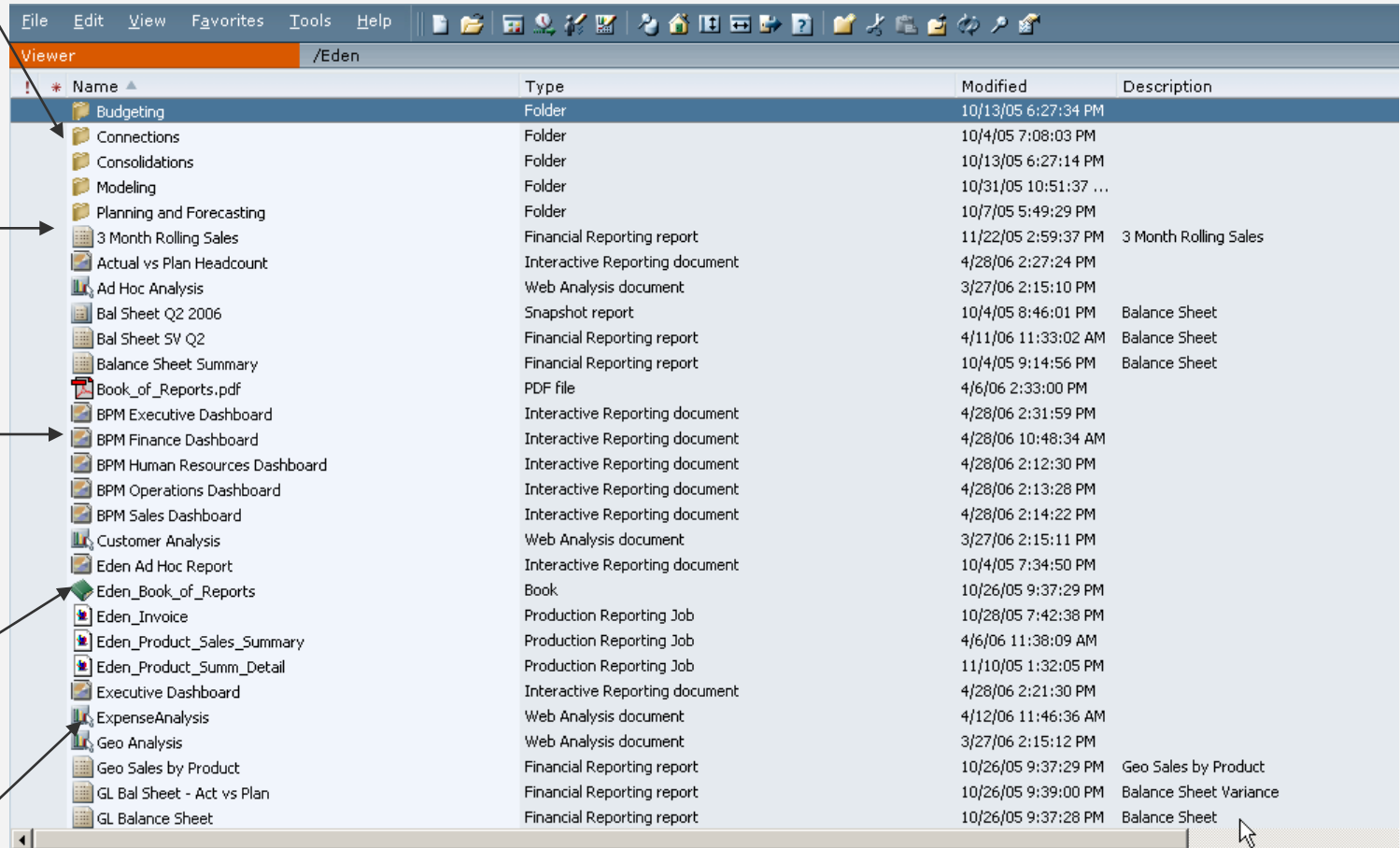
Financial Reporting report or book

Interactive Reporting dashboard

Financial Reporting book

Answers Query

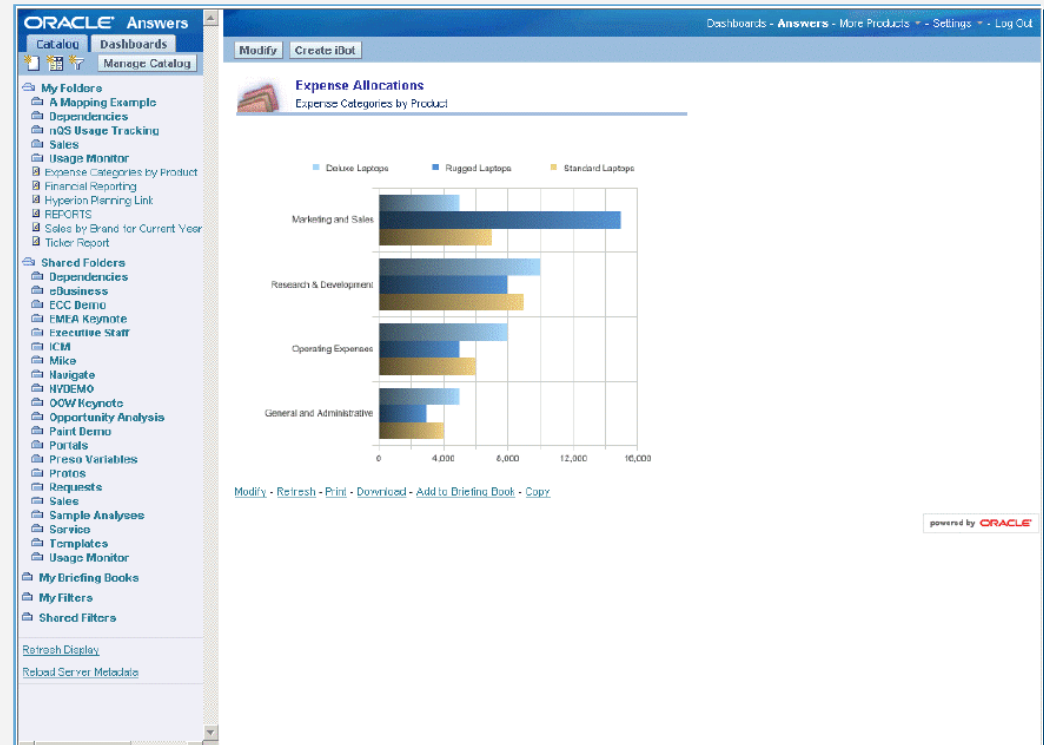
OBI Dashboard



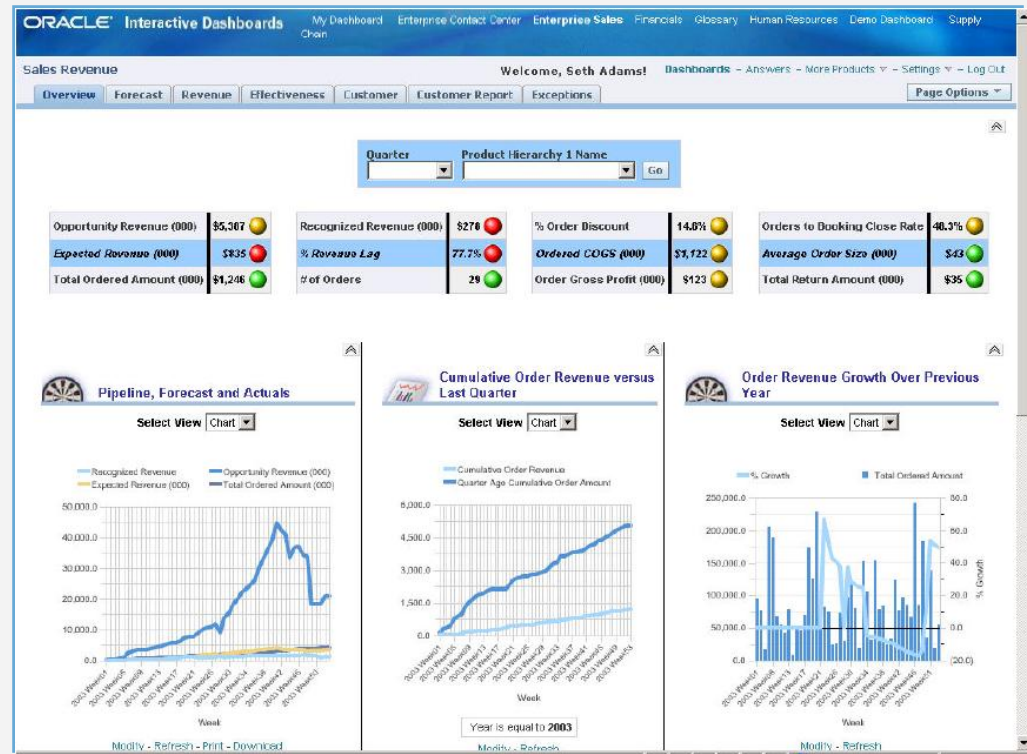
Name	Type	Modified	Description
Budgeting	Folder	10/13/05 6:27:34 PM	
Connections	Folder	10/4/05 7:08:03 PM	
Consolidations	Folder	10/13/05 6:27:14 PM	
Modeling	Folder	10/31/05 10:51:37 ...	
Planning and Forecasting	Folder	10/7/05 5:49:29 PM	
3 Month Rolling Sales	Financial Reporting report	11/22/05 2:59:37 PM	3 Month Rolling Sales
Actual vs Plan Headcount	Interactive Reporting document	4/28/06 2:27:24 PM	
Ad Hoc Analysis	Web Analysis document	3/27/06 2:15:10 PM	
Bal Sheet Q2 2006	Snapshot report	10/4/05 8:46:01 PM	Balance Sheet
Bal Sheet SV Q2	Financial Reporting report	4/11/06 11:33:02 AM	Balance Sheet
Balance Sheet Summary	Financial Reporting report	10/4/05 9:14:56 PM	Balance Sheet
Book_of_Reports.pdf	PDF file	4/6/06 2:33:00 PM	
BPM Executive Dashboard	Interactive Reporting document	4/28/06 2:31:59 PM	
BPM Finance Dashboard	Interactive Reporting document	4/28/06 10:48:34 AM	
BPM Human Resources Dashboard	Interactive Reporting document	4/28/06 2:12:30 PM	
BPM Operations Dashboard	Interactive Reporting document	4/28/06 2:13:28 PM	
BPM Sales Dashboard	Interactive Reporting document	4/28/06 2:14:22 PM	
Customer Analysis	Web Analysis document	3/27/06 2:15:11 PM	
Eden Ad Hoc Report	Interactive Reporting document	10/4/05 7:34:50 PM	
Eden_Book_of_Reports	Book	10/26/05 9:37:29 PM	
Eden_Invoice	Production Reporting Job	10/28/05 7:42:38 PM	
Eden_Product_Sales_Summary	Production Reporting Job	4/6/06 11:38:09 AM	
Eden_Product_Summ_Detail	Production Reporting Job	11/10/05 1:32:05 PM	
Executive Dashboard	Interactive Reporting document	4/28/06 2:21:30 PM	
ExpenseAnalysis	Web Analysis document	4/12/06 11:46:36 AM	
Geo Analysis	Web Analysis document	3/27/06 2:15:12 PM	
Geo Sales by Product	Financial Reporting report	10/26/05 9:37:29 PM	Geo Sales by Product
GL Bal Sheet - Act vs Plan	Financial Reporting report	10/26/05 9:39:00 PM	Balance Sheet Variance
GL Balance Sheet	Financial Reporting report	10/26/05 9:37:28 PM	Balance Sheet



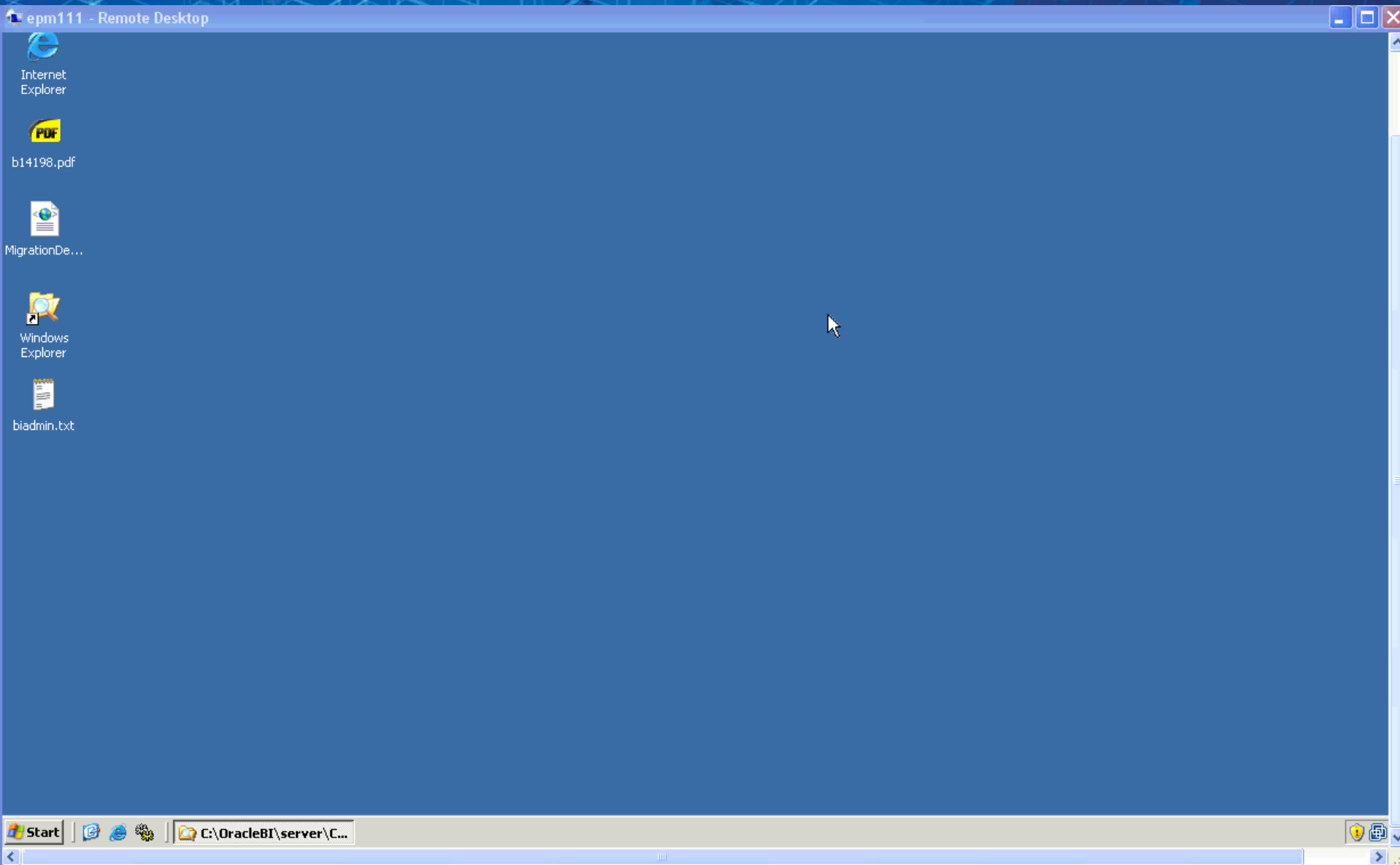
- Part of the OBIEE suite
- Adhoc reporting interface, pivot, charts
- Point and click
- Save organize and share
- Sources data from the OBI Server
- Link content to Dashboards
- Answers+ coming soon ... full Hyperion feature support (Essbase connections)



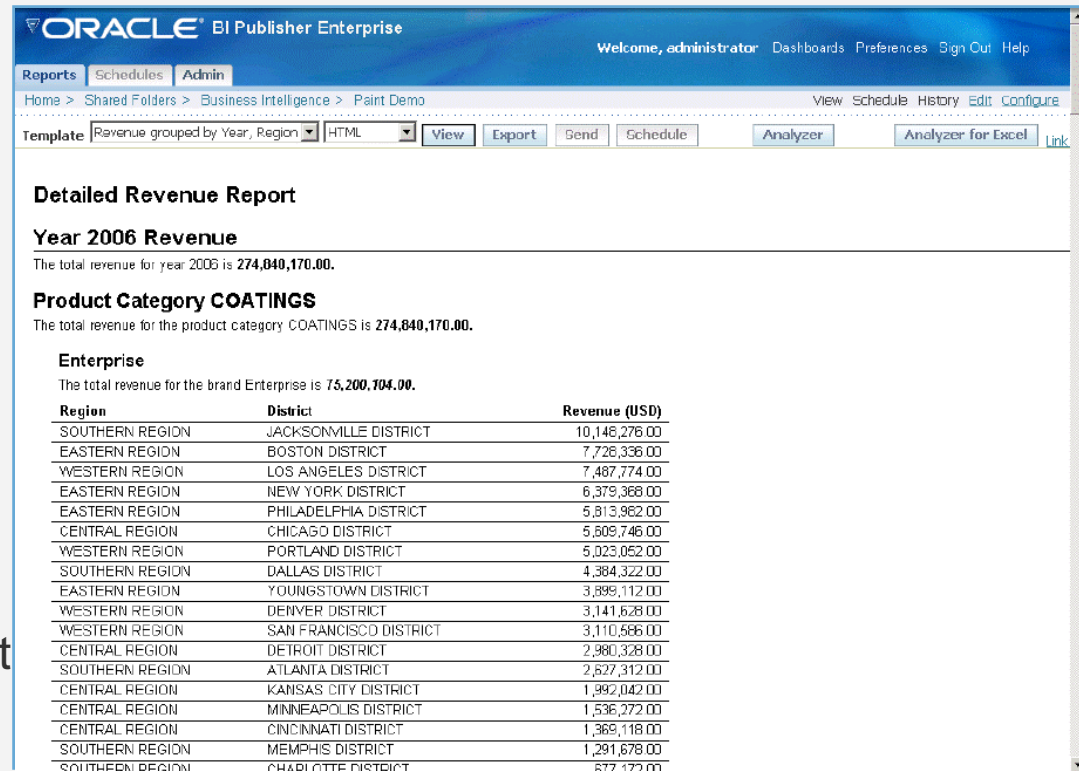
- Part of the OBIEE suite
- Fully interactive graphical dashboards
- Real time data across enterprise sources
- Point and click to create and use
- Guided analytics – intelligent links to aid users in their investigations
- Dashboards+ coming soon ... full Hyperion feature support



epm111 - Remote Desktop



- Part of the OBIEE suite
- Pixel perfect reports
- E.g. Standard reports, checks, invoices
- Multiple data sources
 - OBI Server
 - Databases
 - Files
 - Web Services
 - URLs
- Multiple output formats
 - Word, Excel, PDF, XML, ot
- Delivery online, email or FTP
- Batch processing and report bursting
- High volume printing



ORACLE BI Publisher Enterprise
Welcome, administrator | Dashboards | Preferences | Sign Out | Help

Home > Shared Folders > Business Intelligence > Paint Demo | view | Schedule | History | Edit | Configure

Template | Revenue grouped by Year, Region | HTML | View | Export | Send | Schedule | Analyzer | Analyzer for Excel | Link

Detailed Revenue Report

Year 2006 Revenue
The total revenue for year 2006 is **274,040,170.00**.

Product Category COATINGS
The total revenue for the product category COATINGS is **274,840,170.00**.

Enterprise
The total revenue for the brand Enterprise is **75,200,704.00**.

Region	District	Revenue (USD)
SOUTHERN REGION	JACKSONVILLE DISTRICT	10,146,276.00
EASTERN REGION	BOSTON DISTRICT	7,726,336.00
WESTERN REGION	LOS ANGELES DISTRICT	7,467,774.00
EASTERN REGION	NEW YORK DISTRICT	6,379,368.00
EASTERN REGION	PHILADELPHIA DISTRICT	5,813,962.00
CENTRAL REGION	CHICAGO DISTRICT	5,609,746.00
WESTERN REGION	PORTLAND DISTRICT	5,023,052.00
SOUTHERN REGION	DALLAS DISTRICT	4,364,322.00
EASTERN REGION	YOUNGSTOWN DISTRICT	3,899,112.00
WESTERN REGION	DENVER DISTRICT	3,141,628.00
WESTERN REGION	SAN FRANCISCO DISTRICT	3,110,586.00
CENTRAL REGION	DETROIT DISTRICT	2,960,328.00
SOUTHERN REGION	ATLANTA DISTRICT	2,527,312.00
CENTRAL REGION	KANSAS CITY DISTRICT	1,992,042.00
CENTRAL REGION	MINNEAPOLIS DISTRICT	1,536,272.00
CENTRAL REGION	CINCINNATI DISTRICT	1,369,118.00
SOUTHERN REGION	MEMPHIS DISTRICT	1,291,678.00
SOUTHERN REGION	CHARLOTTE DISTRICT	677,472.00



- Module primarily utilized for highly formatted financial and operating reports against OLAP, Planning, and HFM sources
- Create books and batches
- Schedule process
- Previously known as Hyperion Reports



Eden Corporation
Total Geography - Balance Sheet
For month end Jul , 2004
 Report Run Date: 08-Mar-05 7:22:29 AM by admin

	Actual	Plan	Act vs Plan
	Jul		%
Cash and Cash Equivalents	\$ 310,842,463	\$ 619,297,472	(49.8)%
Accounts Receivable - Net	400,363,476	245,328,617	63.2%
Total Inventory	232,002,330	191,665,663	21.0%
Prepaid Expenses	129,435,490	130,087,364	(0.5)%
Current Assets	1,072,643,759	1,186,379,116	(9.6)%
Gross PPE	1,449,677,492	1,447,838,448	0.1%
Accumulated Depreciation	(784,876,058)	(785,105,231)	0.0%
Fixed Assets	684,801,433	682,733,217	0.3%
Intangible Assets	51,189,009	51,758,082	(1.1)%
Accum Amort: Intangible Assets	(15,356,703)	(15,445,607)	0.6%
Long-Term Investments	0	0	-
Investment in Subsidiaries	71,664,612	72,131,795	(0.6)%
Other Long-Term Assets	17,916,153	18,195,396	(1.5)%
Long-Term Deferred Tax Asset	53,748,459	54,402,484	(1.2)%
Other Assets	179,161,530	181,042,151	(1.0)%
Total Assets	1,936,606,722	2,050,154,484	(5.5)%
Accounts Payable	151,008,072	219,096,121	(31.1)%
Other Current Liabilities	406,973,153	443,809,897	(8.3)%
Current Liabilities	557,981,225	662,906,018	(15.8)%
LT Deferred Taxes	41,309,171	41,645,590	(0.8)%
LT Debt	562,729,091	561,877,012	0.2%
IC LT Loan Payable	31,337,992	31,673,508	(1.1)%
Other LT Liabilities	63,032,097	62,765,929	0.4%
Long-Term Liabilities	698,408,351	697,962,040	0.1%
Total Liabilities	1,256,389,576	1,360,868,058	(7.7)%
Minority Interest	26,708,516	26,499,406	0.8%
Shareholder's Investment	252,128,387	249,969,586	0.9%
Retained Earnings	401,380,244	412,817,435	(2.8)%
Surplus	0	0	-
Total Shareholder's Equity	680,217,147	689,286,426	(1.3)%
Total Liabilities and Equity	\$ 1,936,606.72	\$ 2,050,154.48	(5.5)%



Browser interface showing a Profit and Loss Variance Report. The browser address bar shows "/P&LVarianceRpt". The report is for Year: Mar, Product: 200, Market: East, viewed at 56% zoom.

Tasks:

- HTML Preview
- PDF Preview
- Refresh
- Preview User Point of View

Tips:

- Prompts
- Previewing User POV
- Preview Preferences
- Printing

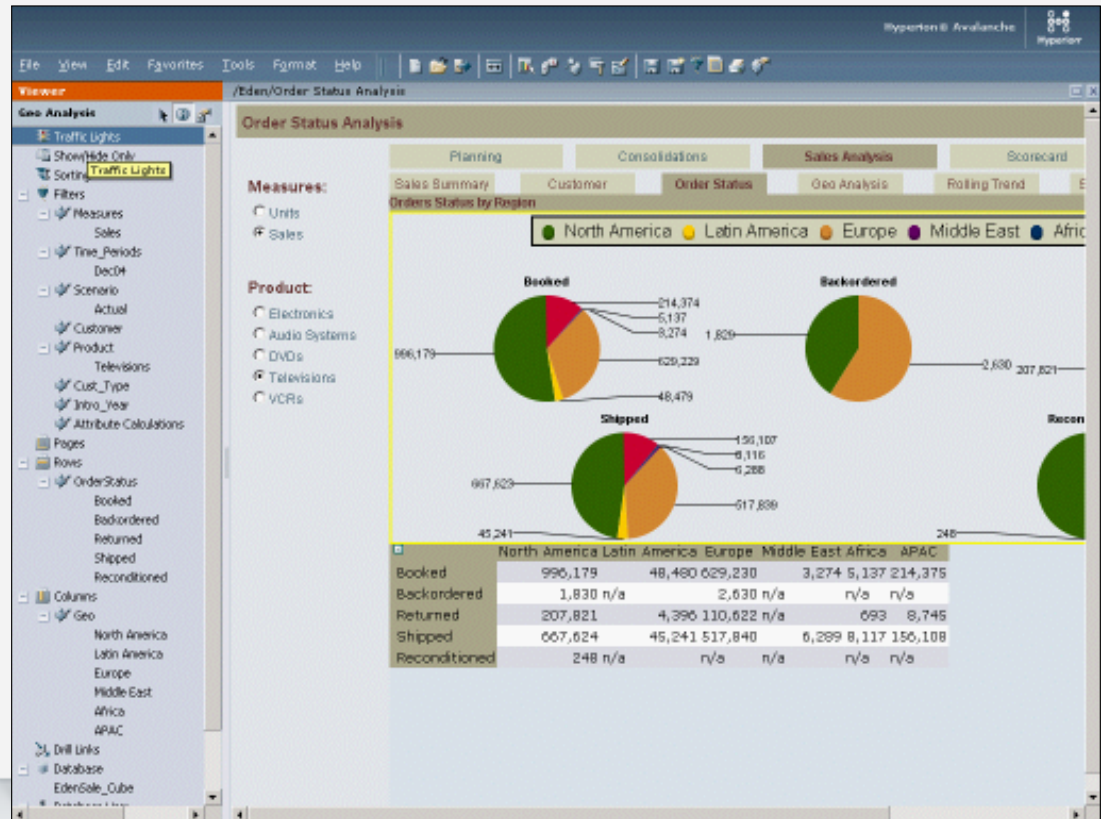
Profit and Loss Variance Report

	Mar Actual	Mar Budget	Mar Variance	Feb Actual	Feb Budget	Feb Variance
Sales	\$1,907	\$1,830	\$77	\$1,968	\$1,870	\$98
COGS	\$648	\$870	(76)	\$635	\$850	(85)
Margin	\$967	\$960	\$7	\$1,031	\$1,020	\$11
Marketing	\$500	\$440	(60)	\$503	\$420	(83)
Payroll	\$284	\$220	(64)	\$284	\$200	(84)
Misc.	\$5	-	(5)	\$2	-	(2)
Total Expenses	\$739	\$660	(730)	\$739	\$640	(149)
Profit	\$162	\$300	(138)	\$242	\$380	(138)

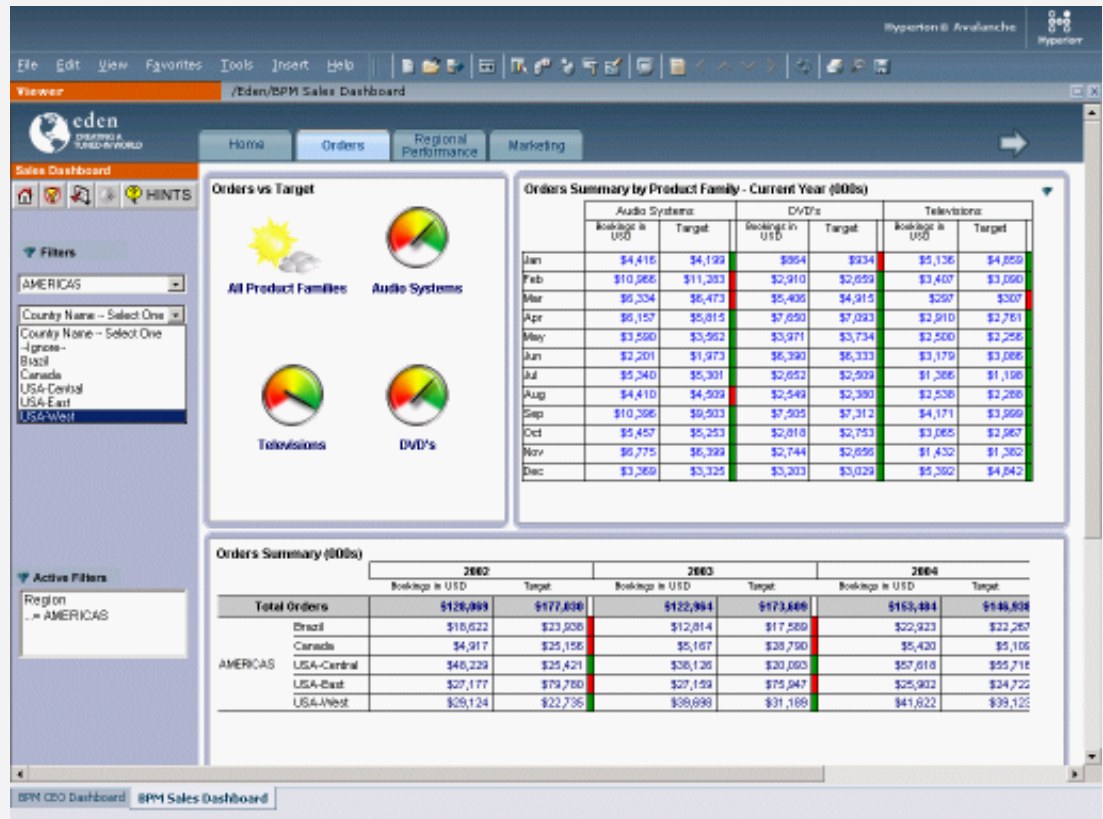
Navigation: 1 of 1



- Module primarily utilized for advanced analysis capabilities against OLAP data sources
- Analysis focused
- Adhoc querying
- Dashboard creation
- Previously known as Hyperion Analyzer



- Module primarily used to create ad-hoc, relational queries and dashboards
- New in 9.3.1 – CubeQuery for Essbase
- Dashboard creation via wizards and templates
- Previously known as Hyperion Intelligence (Brio)



- Delivers
 - Automated detection and alerts for proactive insight
 - Delivery of content to mobile devices in multiple formats
 - Multi-step analysis and analytic workflow
- Disconnected Analytics
 - Full analytics for the mobile professional
 - Same experience both on and offline
 - Full and incremental data synchronization for rapid updates and minimum data set size

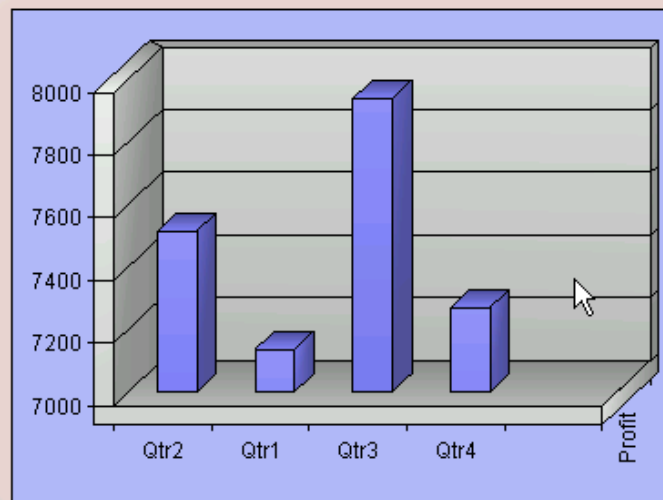


- Common Microsoft add-in for Oracle BI technologies
- Integrate Oracle EPM System data to Word, PowerPoint, Excel, and Outlook
- Supported Smart View sources include: Oracle BI Server, Essbase, Financial Management, Planning, Enterprise, Web Analysis, Financial Reporting, and Interactive Reporting
- Perform analysis and create highly formatted reports
- Other
 - Enter plans and run Business Rules in Excel
 - Run consolidations and enter journal entries in Excel for Financial Management
 - Provides single Excel interface for HFM and HP



Dynamic BI Content in PowerPoint



































	Profit	Inventory
GSP-1700	4593	334
GSP-1600	-510	200
Satellite Handsets	4083	53E
Globalstar GCK-1410	1656	281
Globalstar GPK-1410	5013	49E
EDK-1410 Extreme Docking Kit	3058	397
SPK-1410 Portable Docking Kit	-	
Vehicle Docking Kits	9727	117E
Marine/Extreme Antenna Enclosure	5354	35E
Globalstar GSP-2900-ST	1769	17E
SeaTel WaveCall 3000	3608	352
Marine and Extreme Weather Units	10731	88E
308 Systems TAC-PAK	4800	320
Delta Wave Fixed Industrial Package	4254	31E
Tracer 3 Package - Ardantable GPS	-3200	31E



Summary by Market



Comparing the Front End Tools Today

	Interactive Reporting	Financial Reporting	Web Analysis	Smart View	Answers / Dashboards	BI Publisher
Relational Data Source				 OBIEE in v11.1.1		
Essbase, FM, Planning Data Source	 (9.3.1; No FM)				 (Coming soon)	
Printable, Formatted Reports						
Adhoc Analysis						
Dashboards						
Charting						
Web						

The Supporting Cast

Common Foundation Layer - Shared Services

- User Provisioning
 - Enables user management across all Oracle EPM products
 - Enables single sign on
 - External authentication to LDAP, MSAD, or NTLM
- EPM Architect
- Life Cycle Management
- Core Services (the underlying “plumbing”)
 - Session management
 - Authentication and authorization
 - Repository services
 - Logging and usage



- ODI (Oracle Data Integration)
 - The future
 - Financial Data Quality Management
 - DIM (Data Integration Management)
 - Informatica repackaged
 - True ETL tool
 - Enterprise Performance Management Architect
-
- Hyperion adapters for all



Steps to Integrate Essbase and OBIEE+ with your Data Warehouse

1. Assess the current state of your data warehouse

- Assess and understand your biggest pain points and needs
 - E.g. Collecting information from too many sources and systems for consistent reporting?
 - E.g. Putting adhoc analysis and advanced analytics in the hands of end users, replacing SQL generated reports?
- Other important questions
 - Where is data stored? Where should I store data? How many sources?
 - Do I have a data warehouse? Is it complete?
 - What are the query performance requirements?
 - What are the requirements for the timing of data delivery (e.g. real-time, nightly)?
 - What are the subject areas?
 - What do the reports look like?
 - What is the time frame for implementation?
 - Who are my users and what do they need to be able to do?
 - How do users need to visualize and analyze data?
 - What calculations and business rules need to be included?
 - Are write back capabilities required?



2. Prioritize and Plan

- Prioritize the requirements – this will help you understand where your focus should be
- Take a phased approach in the implementation and remember you don't have to build everything at once
- Build the right team
- Ensure communication between data warehouse resources, BI server resources, and Essbase resources
 - You are all on the same Information Delivery team! Work together!
- Start small
 - Subject area in BI Server or subject area in Essbase



And Finally...

- 3. Implement / Show Success

- Next Phases / Continual Improvement





In Summary...

Solving Common Data Access Issues

Common Data Access Issues	The Solution
No single strategy for information delivery	Essbase and OBIEE+ along with your data warehouse delivers a complete information delivery system
IT vs. end user queries	Common workspace with user friendly tools puts reporting and analysis in the hands of end users
Silos of information	Oracle BI server delivers a common enterprise model to eliminate silos of information across databases and systems
Limited visibility	Essbase and BI Server provide better visibility to key metrics and factors that drive business performance
Limited correlations	Essbase and BI Server provide a way to correlate relevant information across database and systems
Different end user needs	A common workspace provides information access for both advanced and basic end users BI Server and Essbase allow customization to different end user groups sourced from the common enterprise model

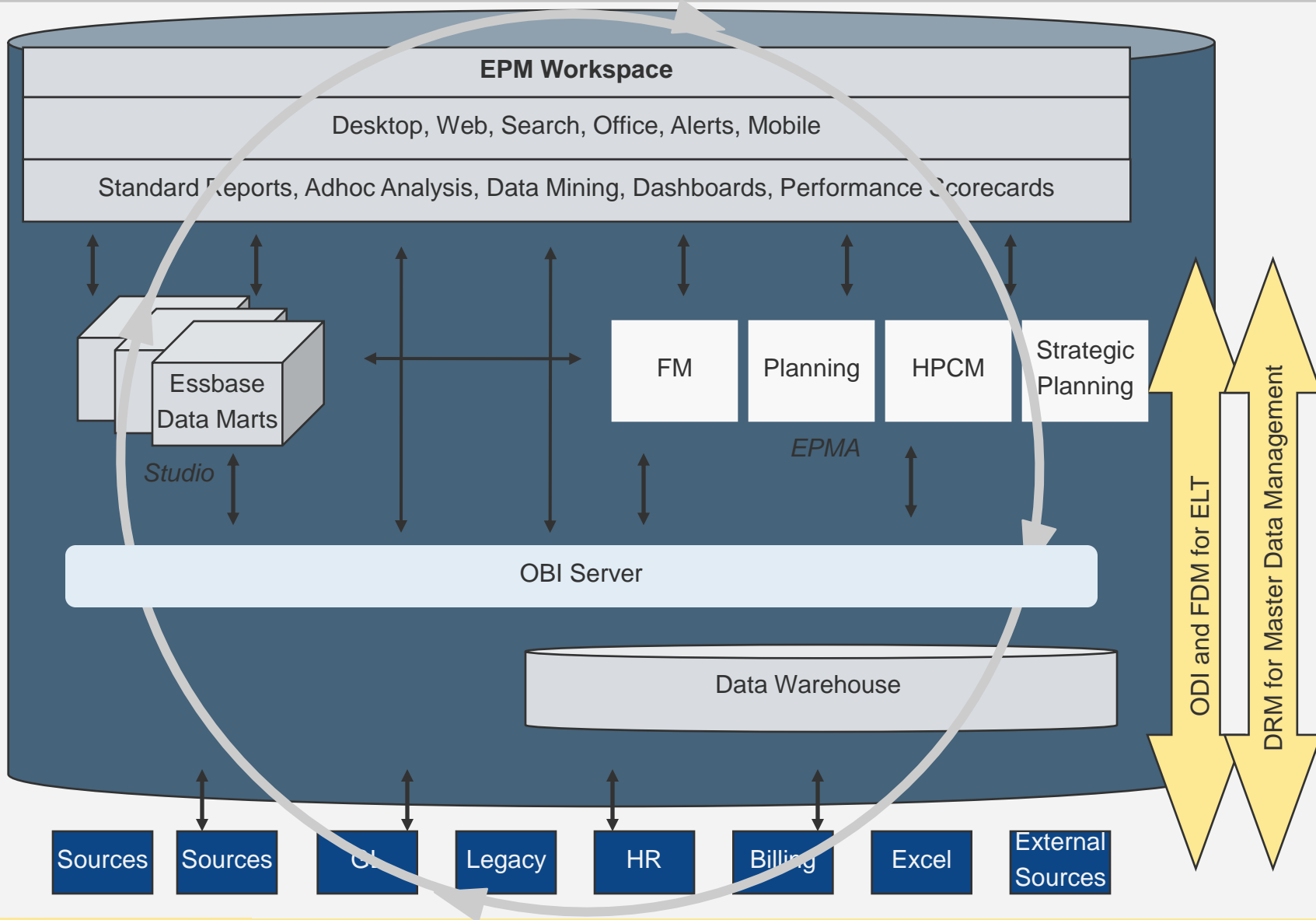


Common Data Warehouse Issues

Common DW Issues	The Solution
Time consuming data warehouse changes	<p>Incorporate changes and new sources to the data warehouse in BI Server (virtually) vs. in your data warehouse (physically)</p> <p>Immediate reporting access for new sources as they are included in logical schemas</p>
Politics of what data should be stored	<p>Gain more flexibility in this debate as no data is stored in BI Server and/or efficiently stored in Essbase</p>
Data latency	<p>Provide real time / near real time access with BI Server and Essbase incremental loads</p>
Costly aggregate structures	<p>Essbase's main purpose in life is to store aggregated data for fast reporting and analysis; Remove aggregations from the DW and use Essbase</p>
Ever changing Business Definitions	<p>Both BI Server and Essbase provide a model for easy updates to business definitions</p>
Common dimensions and common definitions	<p>Both BI Server and Essbase provide a common enterprise model for information; at the same, they allow customized presentations and views of end user specific terms and dimensions</p>

Integrating Essbase and OBIEE+ with your Data Warehouse

Information Delivery Platform

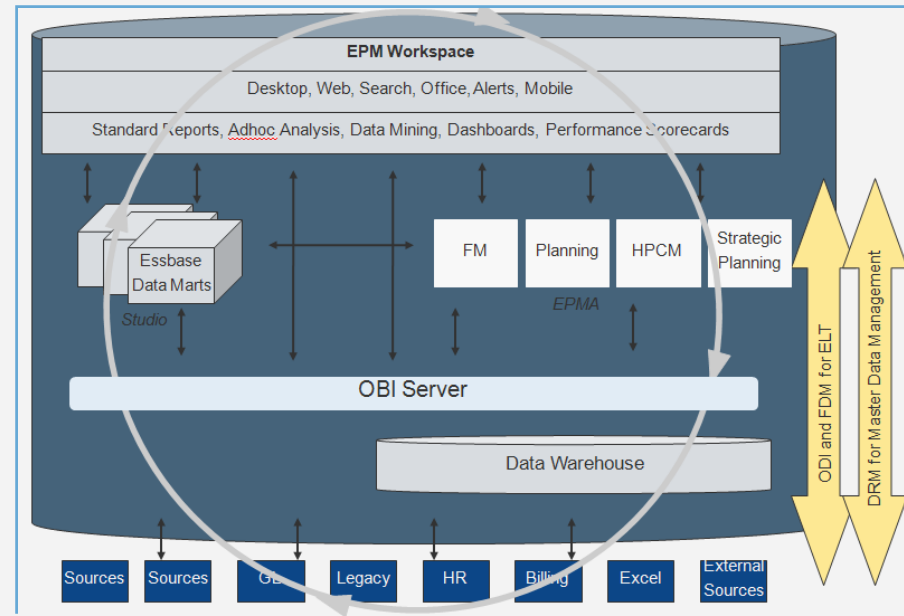


In Summary...

- Proven integration between ERPs, data warehouses and Essbase / OBIEE+ (Oracle's BI Foundation Layer)
- Essbase and OBIEE+ fill in the Knowledge Gap
 - Reporting, Dashboards, and Advanced Analytics
 - Supports all user communities from the experienced to the novice
 - User community workspace / personalization
- Oracle EPM enhances and adds to your ERP and data warehouse
 - Integration
 - Reduced deployment costs
 - Functionality



- Common Workspace
- Common reporting, analysis and dashboarding tools with comprehensive delivery options
- Common Foundation services
- Take advantage of the EPM applications and enabling technology
- Virtual data warehouse for unifying sources with OBI Server
- Send EPM information back to the data warehouse
- Powerful analysis with Essbase marts
- EPM and Essbase reporting and analysis with Smart View, FR, Dashboards, Answers, & Publisher
- Relational reporting with Smart View, Dashboards, Answers, & Publisher
- Share information between Essbase marts and other EPM apps
- ODI and/or FDM for data integrations
- Manage enterprise dimensions with Data Relationship Management



Thank you!!

Free webcasts – Thursday, 1pm CST

Edward Roske, interRel Consulting: eroske@interrel.com