

De-Mystifying OBIEE / Oracle Business Intelligent Applications

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OBIEE Architect, IBM

President BIWA SIG

Thanks: Rahul K, Mohit S, Rajan G, Erik L,
Sateesh N, Mark R, Caryl F, Doug W



Agenda

- BI Reporting Landscape (Operational, Analytical)
- Oracle perspective (OBIEE, OBIA)
- DBI, Fusion Intelligence
- Discoverer Migration to OBIEE
- OBIA 7.9.6 – tips and tricks
- Real life issues
- Wrap Up

About Me!

- A Business Intelligence / Data Warehousing professional with IBM (Global Business Services) – Oracle Practice
- OCP since 1998 on 4 different database versions
- President/Founder of BIWA SIG – a Special Interest Group for BI, DW and Advanced Analytics professionals
- Regular speaker at NYOUG (since 2006), Oracle Open World, Collaborate, BIWA Summit and Regional User Groups
- Bachelor's from IIT-India, MBA and MS from Florida Atlantic University, Boca Raton, FL



Enjoy lively discussions and expert insights. Collaborate and network with your peers. Join us for these thought-provoking sessions.

Every year Oracle OpenWorld offers a schedule that's bursting with sessions, demos, networking events and more—all geared to making your company work better. This year is no exception and IBM will be there to discuss the issues that are important to you. IBM will present on a range of topics from enabling technologies for business intelligence, optimizing your supply chain, evaluating CRM SaaS projects and leveraging Web 2.0. Take advantage of any or all of the following IBM sessions.

How Smarter Financial Institutions Thrive with IBM 10/14/2009 11:45 - 12:45

Presenters: Boxley Llewellyn, IBM; Patrick Boyle, Oracle; Senthil Kumar, Oracle; Steve Meadows, AIB

This session reviews how Allied Irish Bank shortened their time to market for new banking products and services, reduced the time and cost of compliance, and were able to offer targeted services through a portfolio view of the customer.

How Oracle Business Accelerators Delivered a Complex Implementation in 20 Weeks 10/12/2009 16:00 - 17:00

Presenters: Paul Parent, IBM GBS; Yves Nadon, FPIInnovations

This session explores how IBM Global Business Services used Oracle Business Accelerators to help FPIInnovations optimize their supply chain to increase efficiency, streamline processes, reduce costs and give local management faster access to data and information.

IOUG BIWA SIG: Critical Success Factors for Business Intelligence/Data Warehousing Projects 10/11/2009 15:30 - 17:00

Presenters: Shyam Varan Nath, BIWA SIG / IBM (GBS)

This panel discussion features customers, industry experts and Oracle business intelligence/data warehousing (BI/DW) staff to define a list of the critical success factors that should be identified and prioritized for BI/DW project success.

Strategies for Controlling Costs and Improving the Performance of Your HCM Applications 10/15/2009 13:30 - 14:30

Presenters: Steve Johnston, IBM

In this session, attendees will learn how effective data management strategies can help maximize the business value of their HCM applications, reduce costs, optimize application performance, enhance data security, improve storage utilization and increase efficiency.

The Journey to a Successful Integrated Finance Organization: What Drives Change? What's Next? 10/12/2009 13:00 - 12:00

Presenters: Bill Fuessler, IBM GBS, Financial Management Global Leader; Carl Nordman, IBM GBS, Oracle Practice, Financial Management

This session details findings from a recent peer-to-peer exchange hosted by IBM for CFOs and senior finance professionals who have successfully become an integrated organization.

Using Web 2.0 to Become a Recognized Oracle Expert: Customer Panel 10/12/2009 13:00 - 14:00

Presenters: Shyam Varan Nath, IBM / BIWA SIG; Mohan Dutt, Verisign, Inc.; Debbie Kiaaina, Oracle; Rob Shapiro, Oracle

This panel discussion features Oracle customers, partners and employees who will address ways to take full advantage of the

...OOW Oct 11-15, 2009

Is Your Enterprise CRM SaaS: Considerations for Successful CRM Transformation 10/15/2009 12:00 - 13:00

Presenters: Rick Gaetano, IBM GBS; David Lashar, IBM GBS

This session explores the benefits one company achieved through their Oracle CRM On Demand implementation and how the solution can fulfill its value proposition. The session also addresses leading practices for evaluating, delivering and deploying CRM SaaS projects.

Oracle Database Machine and Oracle Exadata: Best Practices and Customer Considerations 10/13/2009 17:30 - 18:30

Presenters: Shyam Varan Nath, BIWA SIG / IBM (GBS); Philip Stephenson, Oracle

In this joint session, IOUG's Oracle Exadata SIG and Oracle product management discuss the impact of the Oracle Database Machine and Oracle Exadata Storage Server on the high-end data warehousing user community.

help drive innovation.

Demystifying the Oracle Database Platform and Oracle Exadata Server 10/11/2009 14:00 - 15:00

Presenters: Shyam Varan Nath, IBM Global Business Services
This session details the HP Oracle Database platform and Oracle Exadata Storage Server and how to tackle the challenges of getting information out of database environments that are approaching terabyte limits. The session will also examine the data warehousing server market as a whole.

Insights from the Trenches: Partners Speak Out on Delivering Real Value with AIA 10/12/2009 11:30 - 12:30

Presenter: Bob Devonshire, IBM Global Business Services
This session explores how Oracle and its partners can leverage their proven success in developing and implementing integrated enterprise solutions to help you control costs and minimize risk using the Oracle Application Integration Architecture framework.



Come with questions. Leave with answers.

Register NOW. Save NOW.

OCTOBER 11-15, 2009
MOSCONE CENTER
SAN FRANCISCO



Blog

<http://OracleBIWAsig.blogspot.com>



oracle business intelligence,
warehousing and analytics -
biwa sig

897

LOOKING FOR A BUSINESS INTELLIGENCE SOLUTION? NOT SURE WHAT TECHNOLOGY TO USE, OR
NEED JUST A LITTLE HELP, COME TO THIS PEER SUPPORT GROUP.

monday, june 22, 2009

Smart Strategies for Uncertain Times

The Monday keynote by John Kopcke (happy the keynote is in the BI/EPM space, so the lanyard by RittmanMead and bags logo of Interrel!)

Do business executives really do not know what they want for BI/EPM is it simply the dashboard envy that drives the projects? John is highlighting the importance of economic downturn for new opportunities. Smukers has grown in profits recently. So what are the high impact strategies:

- Cash conservation is a no-brainer here...
- Manage risk and performance
- Management Excellence (ability of business to be agile in changing

Ads by Google



System 9 / 11 EPM help

Installation, upgrades, migration Download free presentations and info

www.EricHelmer.com

Data warehouse

Leading vendors compared: 2009 Magic Quadrant of Customer Data.

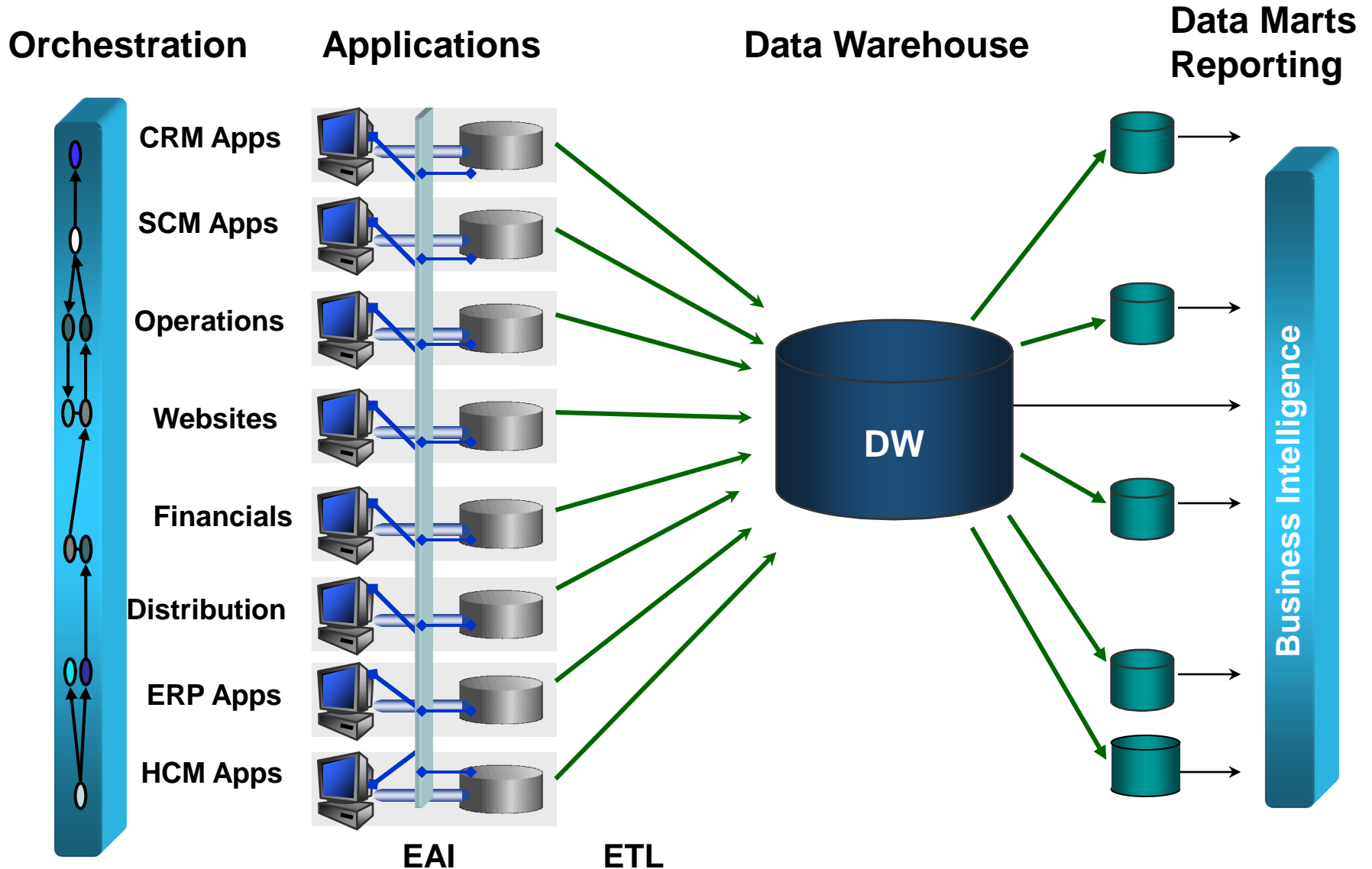
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SAS® Performance

Acronyms

- OBIEE
- OBIA
- OLAP, OLTP, OBAW
- DAC
- EUL
- RPD, Webcat
- INFA, ETL / ELT, EAI
- SDE (source dependent executions)
- SIL (source independent loads)
- Fin, SCM, P&S, HR etc.
- DBI

Ideal Information Architecture

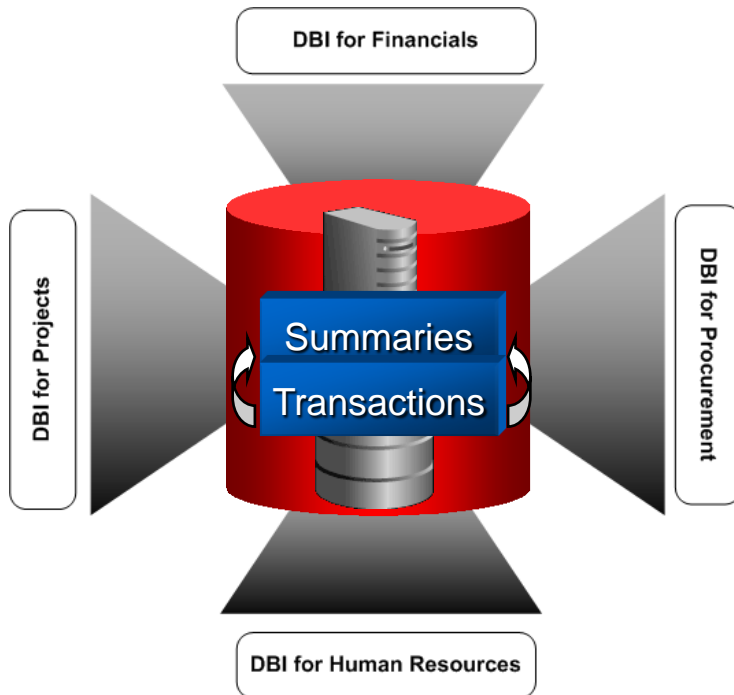


Enterprise BI/Reporting Landscape

- Operational Reporting
 - Oracle Reports, BI Publisher
 - Discoverer EUL
- Operational Intelligence
 - Daily Business Intelligence
 - Neotix Views
 - Fusion Intelligence
- Data Warehouse (strategic)
 - EDW
 - OBIEE (Custom, Data Federation)
 - OBIA Apps
- SAP – BW
(counterpart)

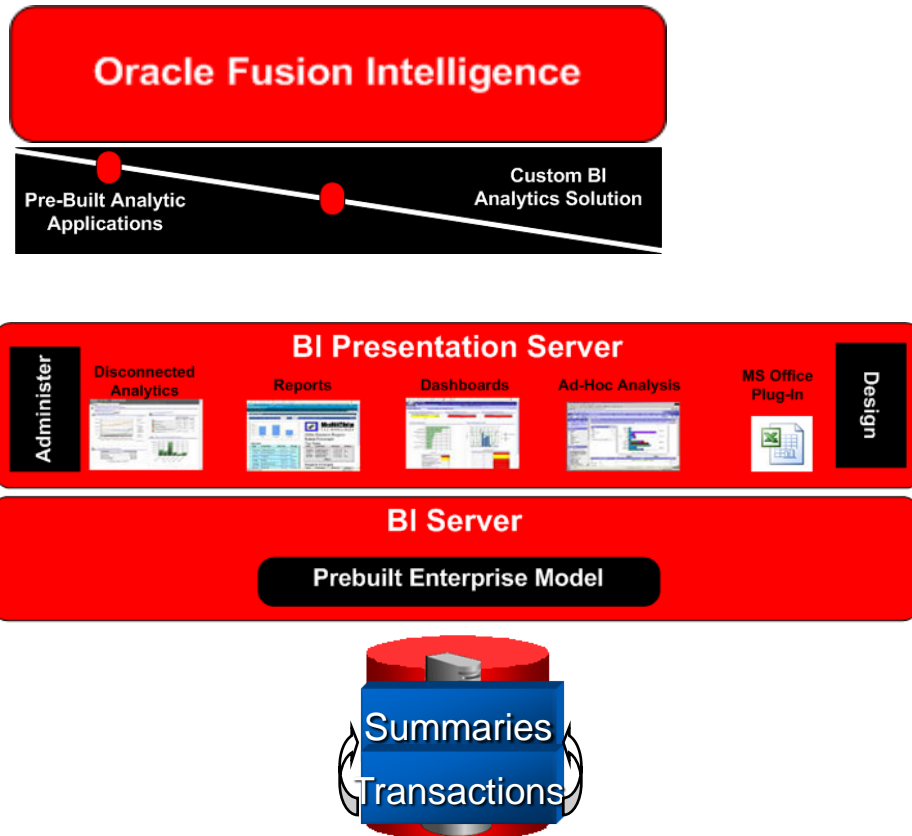
	Strategic BI	Tactical BI	Operational BI
Business focus	Develop long-term business goals	Manage tactical initiatives to achieve strategic goals	Manage and optimize daily business operations
Primary users	Executives & business analysts	Executives, analysts & LOB managers	Analysts, LOB managers and users, and operational processes
Time-frame	Months to years	Days to weeks to months	Intra-day
Data	Historical data	Historical data	Real-time, low-latency & historical data

Daily Business Intelligence (DBI)



- ❑ Out-of-the-Box:
 - ❑ Predefined Roles
 - ❑ Predefined Key Performance Indicators (KPIs)
 - ❑ Drill-Down Reports
- ❑ Embedded EBS Role-based Security
- ❑ Data Synchronization
 - ❑ Summary Tables & Materialized Views
 - ❑ Refresh Daily or As Desired
- ❑ Runs Directly from Transactional System – No Separate Reporting Infrastructure Required

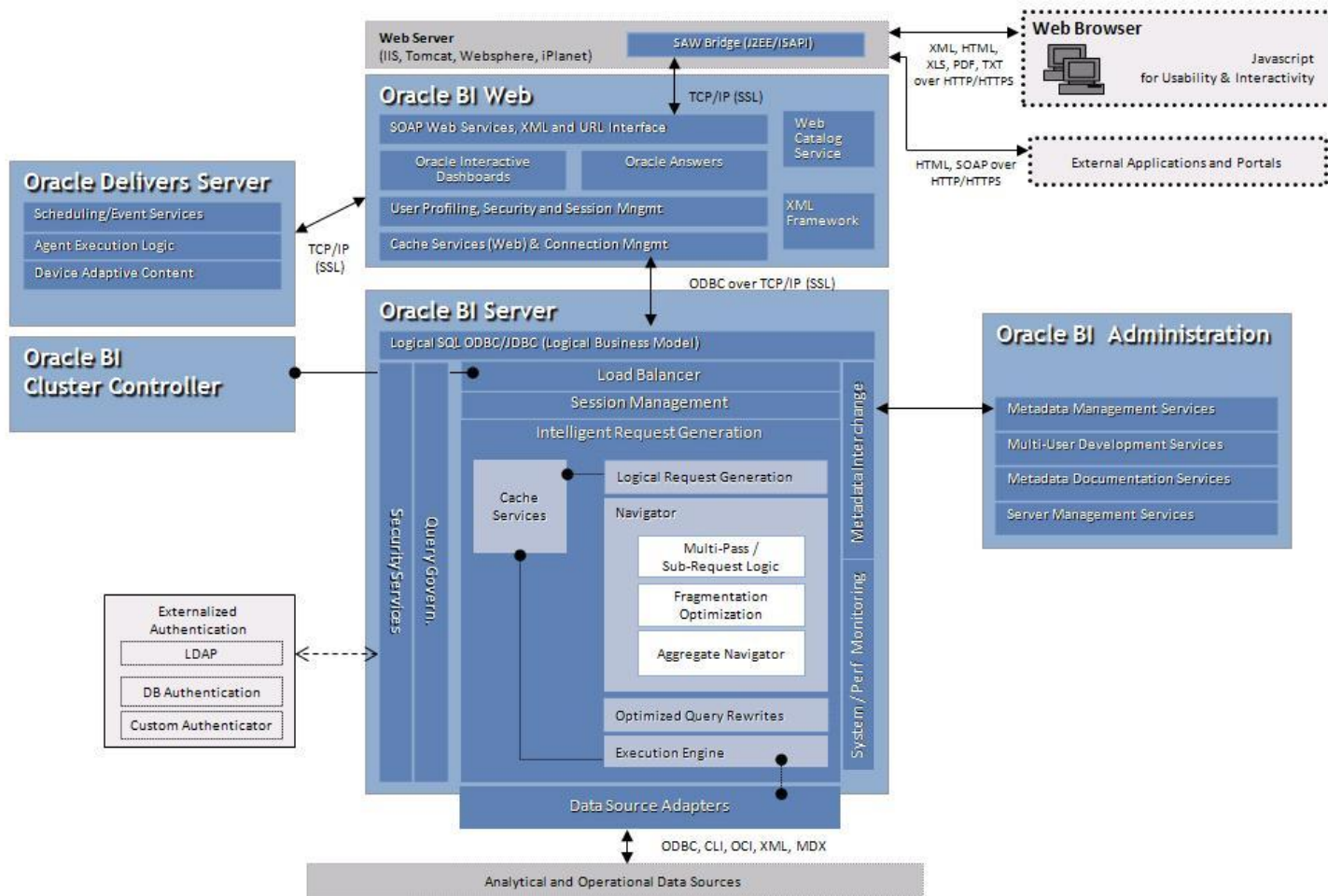
Fusion Intelligence - EBS Edition (Now Obsolete)



- Leverage Existing DBI Capabilities & Investment using OBIEE
- Greater Flexibility to meet Reporting Requirements (i.e.adhoc reporting)
- Greater Extensibility with Developing Custom KPIs
- Greater Personalization: Add, Rearrange, Hide or Rename Dashboards, Reports, Graphs etc.
- Integrate Information from 3rd-party Data Sources (i.e.unify DBI and Non-DBI information)

Oracle Business Intelligence – Enterprise Edition

Oracle BI EE Architecture



Oracle Business Intelligence Enterprise Edition

- Installation
 - JDK 5
 - Java Containers
 - Admin Tool in Windows only
 - BI Server in Windows / Linux
- On-going
 - Users and Security
 - Cache
- Advanced
 - High Availability
 - Clustering

OBIEE - Services

The screenshot shows the Windows Services console with the 'Services (Local)' window open. The 'Oracle BI Server' service is selected, and its details are shown in the right pane. A command prompt window is overlaid on top, displaying the output of a command executed in the C:\WINDOWS\system32\cmd.exe directory. The output shows the initialization of the Oracle BI Server, including the Quartz scheduler and the Oracle Containers for J2EE (OC4J) launcher.

Services (Local)

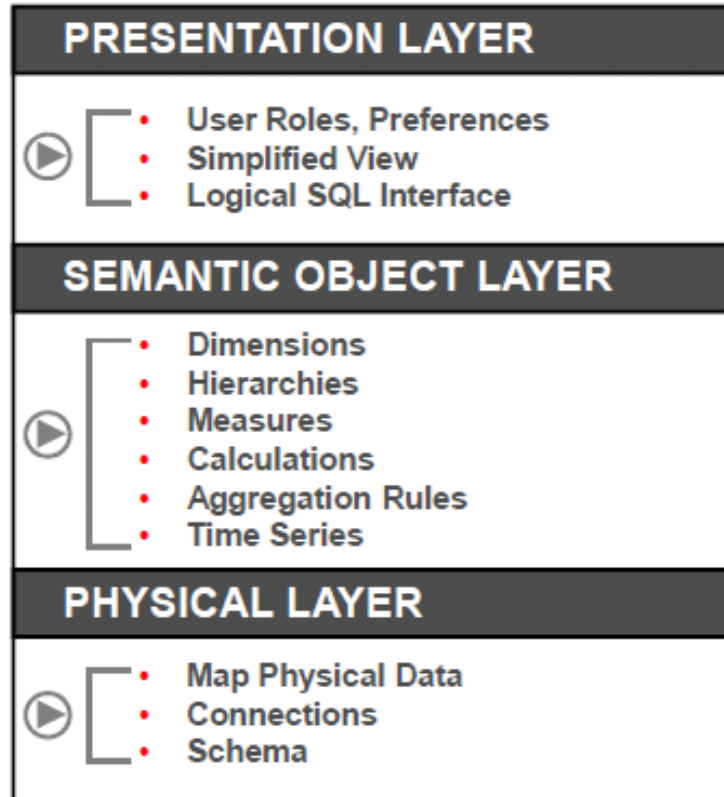
Oracle BI Server

[Start](#) the service

Name	Status	Startup Type	Path	
ISSI				
LiveUpda				
Logical Di				
Logical Di				
Messeng				
MS Softw				
Net Logo				
Net.Tcp F				
NetMeeti				
Network				
Network				
Network				
Network				
Network				
Network				
NT LM Se				
Office So				
Oracle BI Cluster Controller		Manual	Local System	
Oracle BI Java Host	Started	Automatic	Local System	
Oracle BI Presentation Server		Automatic	Local System	
Oracle BI Scheduler		Manual	Local System	
Oracle BI Server		Manual	Local System	
OracleDBConsoleibm1		Automatic	Local System	
OracleJobSchedulerIBM1		Disabled	Local System	
OracleOraDb10g_home1iSQL*Plus	iSQL*Plus ...	Started	Automatic	Local System
OracleOraDb10g_home1TNSListener	Started	Automatic	Local System	
OracleServiceIBM1		Manual	Local System	
Performance Logs and Alerts	Collects be...	Manual	Network S...	

```
C:\WINDOWS\system32\cmd.exe
erver\WEB-INF\lib\toplink.jar <from WEB-INF/lib/ directory in C:\OracleBI\oc4j_b
i\j2ee\home\applications\xmlpserver\xmlpserver\WEB-INF\lib> has the same filenam
e but is not identical to /C:/OracleBI/oc4j_bi/toplink/jlib/toplink.jar <from <c
ode-source> <ignore manifest Class-Path> in META-INF/boot.xml in C:\OracleBI\oc4
j_bi\j2ee\home\oc4j.jar>. If it contains different versions of the same classes,
it will be masked as the latter is already visible in the search path of loader
xmlpserver.web.xmlpserver:0.0.0.
WARNING: Code-source C:\OracleBI\oc4j_bi\j2ee\home\applications\xmlpserver\xmlps
erver\WEB-INF\lib\xmlparserv2.jar <from WEB-INF/lib/ directory in C:\OracleBI\oc
4j_bi\j2ee\home\applications\xmlpserver\xmlpserver\WEB-INF\lib> has the same fil
ename but is not identical to /C:/OracleBI/oc4j_bi/lib/xmlparserv2.jar <from <co
de-source> <ignore manifest Class-Path> in META-INF/boot.xml in C:\OracleBI\oc4j
_bi\j2ee\home\oc4j.jar>. If it contains different versions of the same classes,
it will be masked as the latter is already visible in the search path of loader
xmlpserver.web.xmlpserver:0.0.0.
09/06/04 08:38:24 xdo.server.config.dir = null
- Job execution threads will use class loader of thread: OC4J Launcher
- Quartz Scheduler v.1.5.1 created.
- RAMJobStore initialized.
- Quartz scheduler 'DefaultQuartzScheduler' initialized from default resource fi
le in Quartz package: 'quartz.properties'
- Quartz scheduler version: 1.5.1
- Scheduler DefaultQuartzScheduler_$_NON_CLUSTERED started.
09/06/04 08:38:27 Oracle Containers for J2EE 10g (10.1.3.1.0) initialized
```

OBIEE – Three Layers



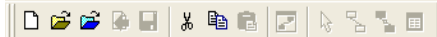
Role-Based Views of the Information Relevant to the User

Consistent Definition of Business Measures, Metrics, Calculations

Model Once, Deploy Everywhere



Across Any Data Sources



Presentation

- Employee Expenses
- Financials - AP Balance
 - Time
 - Fiscal Period
 - Fiscal Period Number
 - Fiscal Quarter
 - Fiscal Year
 - Current Fiscal Period Code
 - Current Fiscal Quarter Code
 - Current Fiscal Year Code
 - Company
 - Ledger
 - Business Area
 - Profit Center
 - GL Account
 - GL Segment1
 - GL Segment2
 - GL Segment3
 - GL Segment4
 - GL Segment5
 - GL Segment6
 - GL Segment7
 - GL Segment8
 - GL Segment9
 - GL Segment10
 - Payables Organization
 - Supplier
 - Supplier Account
 - Facts - AP Balance
- Financials - AP Invoice Aging
- Financials - AP Overview
- Financials - AP Transactions
- Financials - AR Balance
- Financials - AR Invoice Aging
- Financials - AR Overview
- Financials - AR Transactions
- Financials - GL Balance Sheet
- Financials - GL Budget and Expenses
- Financials - GL Cash Flow
- Financials - GL Detail Transactions
- Financials - Profitability - Company
- Financials - Profitability - Customer
- Financials - Profitability - Product
- Financials - Revenue Analysis
- Inventory - Balances
- Inventory - Bill of Materials

Business Model and Mapping

- Core
- Usage Tracking

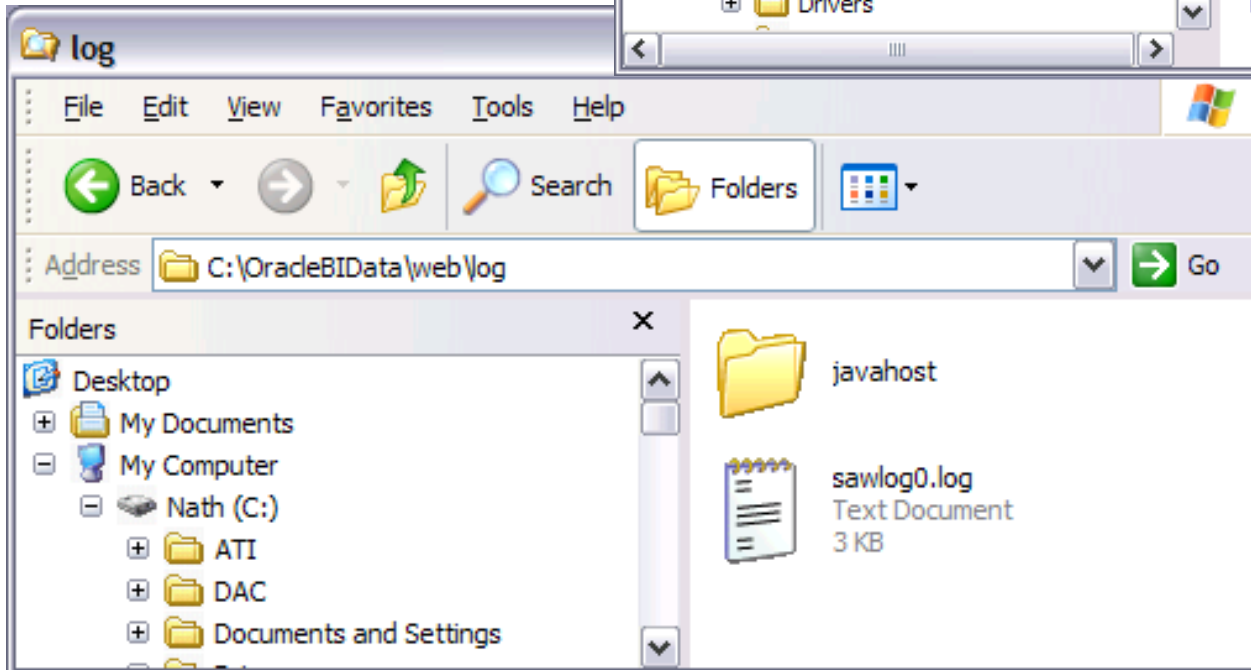
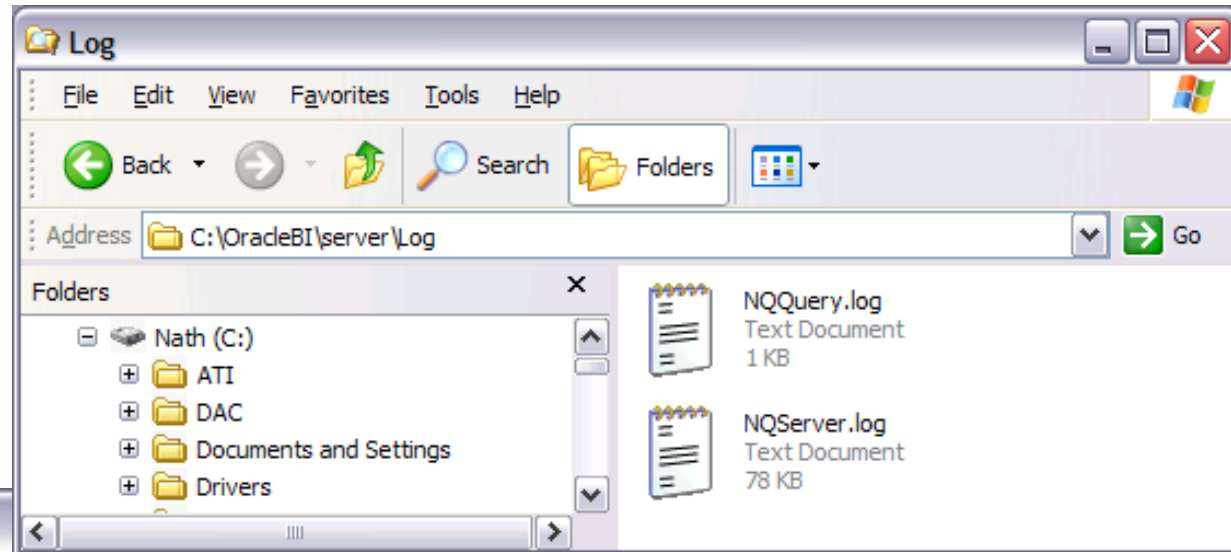
Physical

- Externalized Metadata Strings
- Forecasting Oracle Data Warehouse
- Oracle Analytics Usage
- Oracle Data Warehouse
 - Oracle Data Warehouse Connection Pool
 - Oracle Data Warehouse Repository Initblocks Connection Pool
- Catalog
 - Oracle EBS OLTP
 - PeopleSoft OLTP
 - Siebel OLTP

For Help, press F1

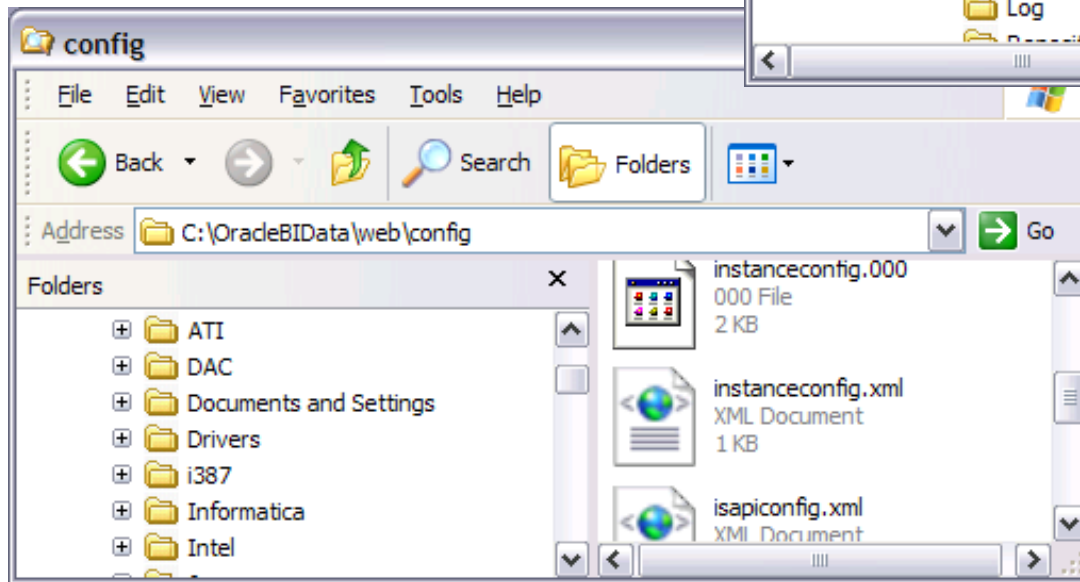
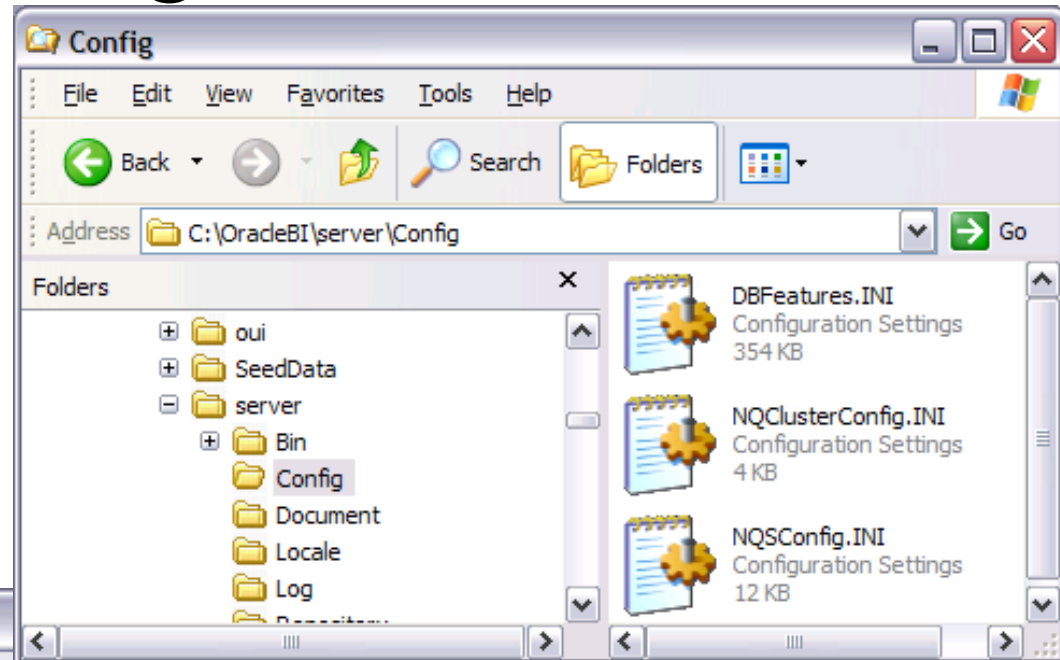
Logs for OBIEE

- BI server
- Presentation Server



OBIEE – Configuration Files

- Server Repository
- Presentation Catalog
(init.ora analogy)

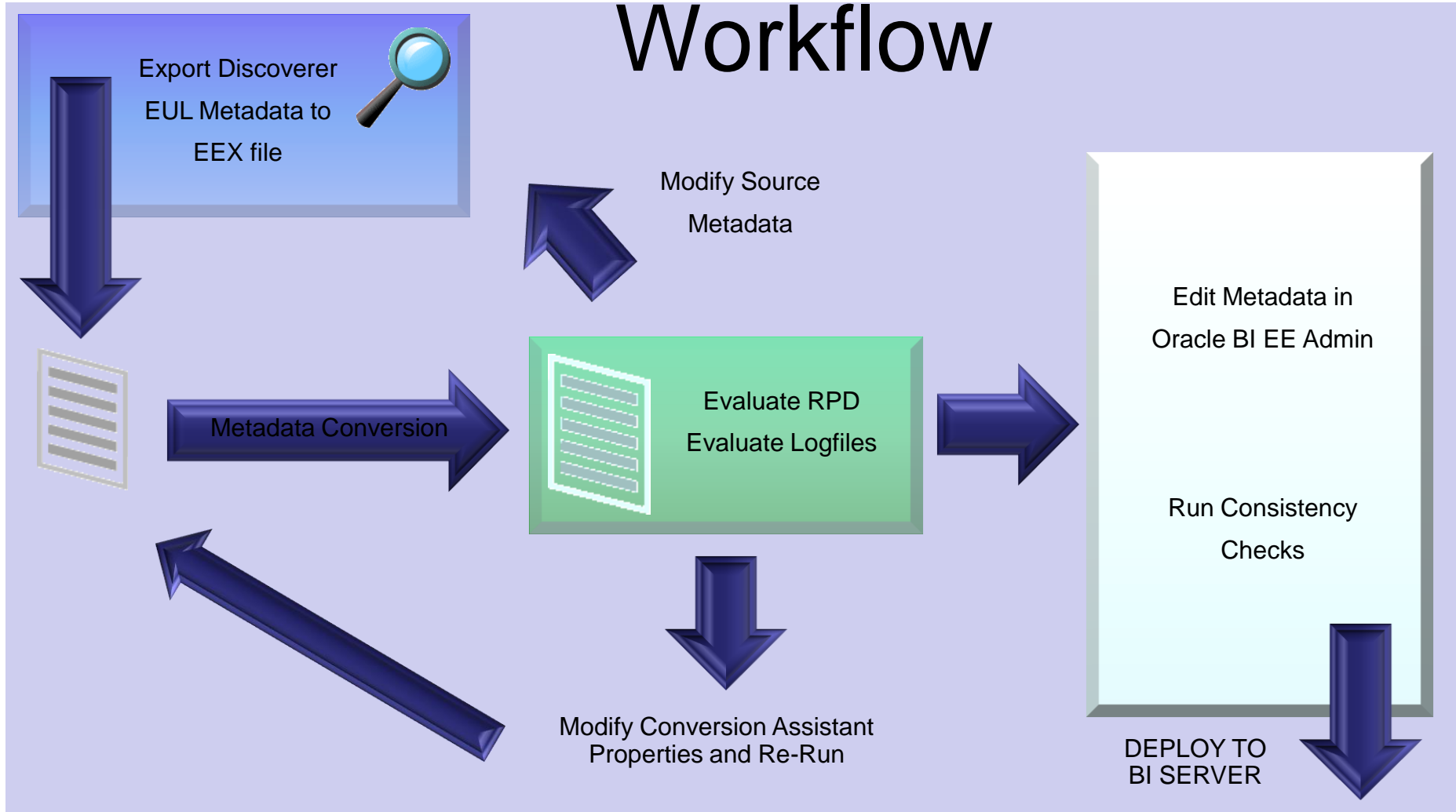


Discoverer (OBISE) to OBIEE

Migration Utility

Metadata Conversion Assistant

Workflow

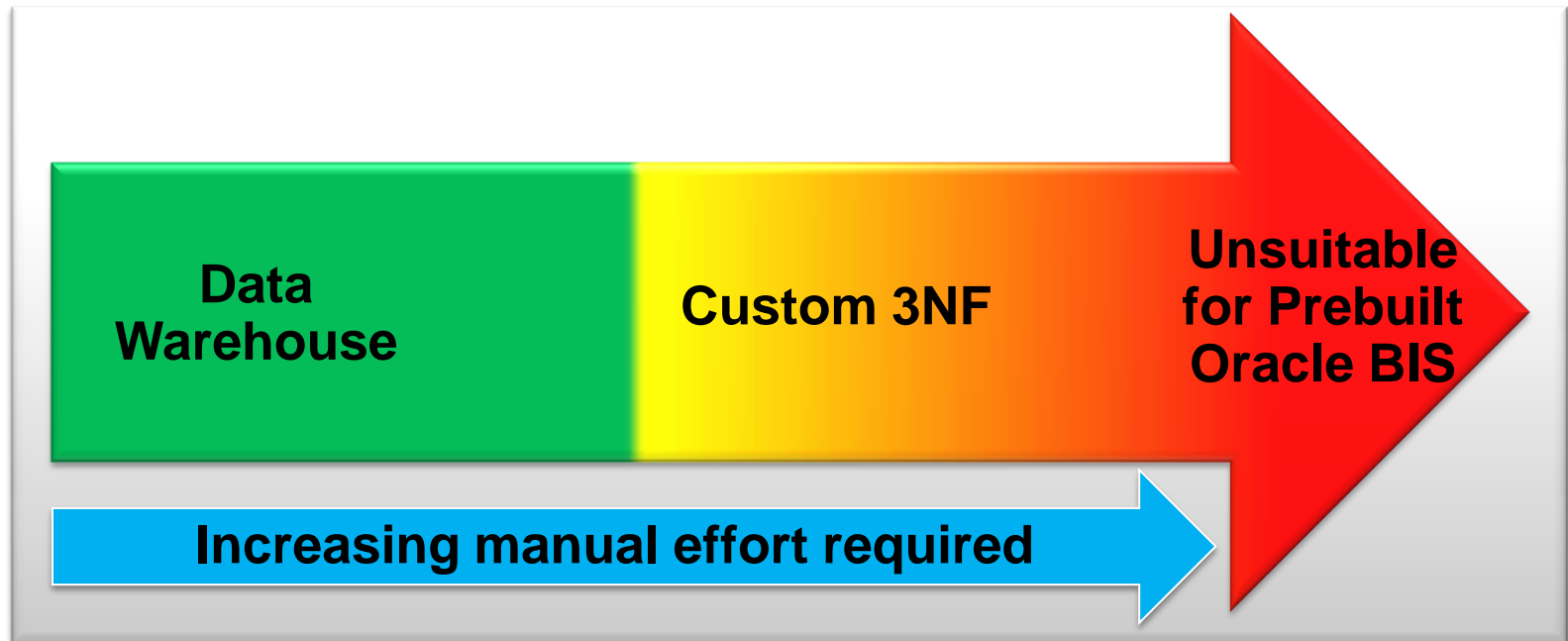


Metadata Conversion Assistant

- Available with Oracle BI EE 10.1.3.4 and higher
- Free download and easy to use – command line
- Generates OBIEE repository .rpd file from Discoverer End User Layer (EUL) or .eex file
- Snowflake data models in Discoverer >Collapsed into a star schema
- Circular or multiple join paths in Discoverer
 - Alias folders used to satisfy multiple join paths
 - Utility generates list of folders that have multiple join paths
 - User can then optionally choose which alias folders to create
- The Workbook Migration utility is in progress

Metadata Conversion Assistant

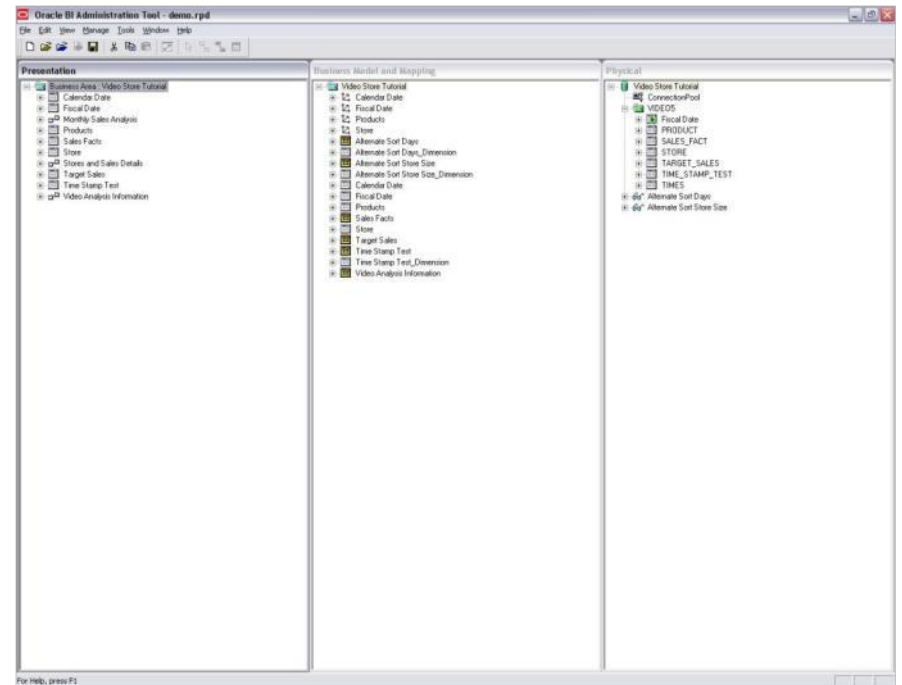
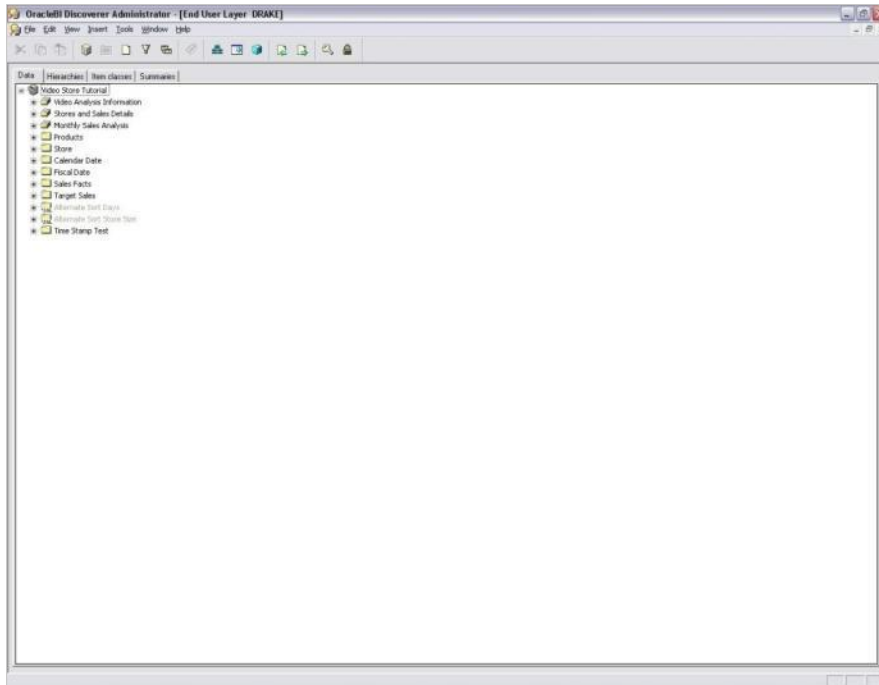
- Suitability of Discoverer metadata for automated conversion



Oracle Discoverer – Oracle BI EE

Analogous Components

- Discoverer Administrator \leftrightarrow BI EE Administration Tool



Oracle Discoverer – Oracle BI EE Analogous Components

- Discoverer Plus/Viewer ↔ BI EE Answers

The screenshot shows the Oracle Discoverer Plus/Viewer interface. The top window displays a 'Sales Analysis 05-JUL-07 18:06:01' worksheet with a data table. The bottom window shows 'Sales Analysis 05-JUL-07 18:17:07' with a 3D bar chart titled 'Sales SUM' showing sales data by region and department for the years 1998, 1999, and 2000.

Year	1998	1999	2000
Beverage	\$963.22	\$1,457.83	\$951.05
Cinema Rental	\$75,398.00	\$75,398.00	\$75,398.00
Laser Disc Rent	\$919.93	\$1,408.78	\$732.43
Snacks	\$919.93	\$1,408.78	\$732.43
Video Rental	\$919.93	\$1,408.78	\$732.43
Video Sale	\$919.93	\$1,408.78	\$732.43

The screenshot shows the Oracle BI EE Answers interface. The top window displays a query definition for 'Year Region Sales' with columns for Year, Region, and Instore. The bottom window shows a 3D bar chart titled 'Year Region Sales' showing sales data by region and year for the years 2000, 2001, and 2002.

Year	Region	Instore
2000	CENTRAL REGION	1,433,830
2000	EASTERN REGION	2,112,732
2000	SOUTHERN REGION	1,124,734
2000	WESTERN REGION	692,756
2001	CENTRAL REGION	1,720,495
2001	EASTERN REGION	2,882,237
2001	SOUTHERN REGION	1,487,966
2001	WESTERN REGION	943,218
2002	CENTRAL REGION	363,343
2002	EASTERN REGION	436,313
2002	SOUTHERN REGION	288,006
2002	WESTERN REGION	142,766

Migration Approach (1 => 3?)

- **Map objects with similar metadata concepts.....**
 - **End User Layer**
 - **Business Areas**
 - **Folders and Items**
 - **Joins**
 - **Hierarchies**



Presentation

- Video Store Tutorial
 - Calendar Date
 - Fiscal Date
 - Monthly Sales Analysis
 - Products
 - Product Type
 - Product Category
 - Full Description
 - Product Description
 - Department
 - Brand
 - Age Category
 - Sales Facts
 - Store
 - Stores and Sales Details
 - Target Sales
 - Time Stamp Test
 - Video Analysis Information

Business Model and Mapping

- Video Store Tutorial
 - Calendar Date
 - Fiscal Date
 - Products
 - Store
 - Alternate Sort Days
 - Alternate Sort Days_Degenerated_Dimension
 - Alternate Sort Store Size
 - Alternate Sort Store Size_Degenerated_Dimension
 - Calendar Date
 - Fiscal Date
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 - Sources
 - Products
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Physical

- Video Store Tutorial
 - ConnectionPool
 - VIDE05
 - Fiscal Date
 - PRODUCT
 - AGE_CATEGORY
 - BRAND
 - DEPARTMENT
 - DESCRIPTION
 - FULL_DESCRIPTION
 - PRODUCT_CATEGORY
 - PRODUCT_KEY
 - PRODUCT_TYPE
 - SALES_FACT
 - STORE
 - TARGET_SALES
 - TIME_STAMP_TEST
 - TIMES
 - Alternate Sort Days
 - Alternate Sort Store Size



Folder Properties From Discoverer

General Dependents

Attribute	Value
Name	Products
Description	Information about products
Visible to user	Yes
Database	<Default Database>
Owner	VIDE05
Object	PRODUCT
Optimizer hints	
Identifier	DC_PRODUCT

The name that users will see to identify this object. Use mixed case text and spaces to give a meaningful name.

Automatically save changes after each edit

OK Cancel Apply Help



Presentation

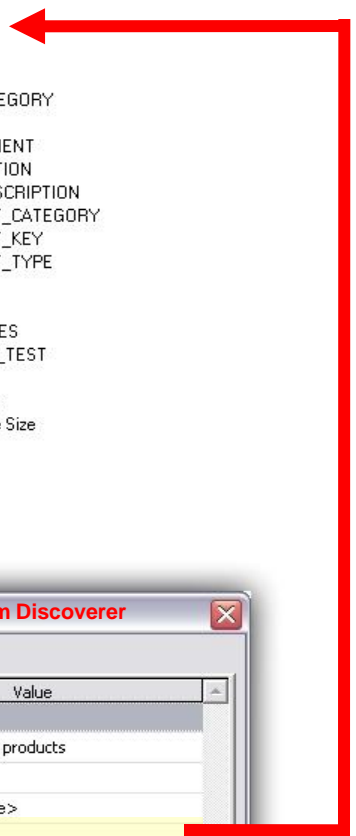
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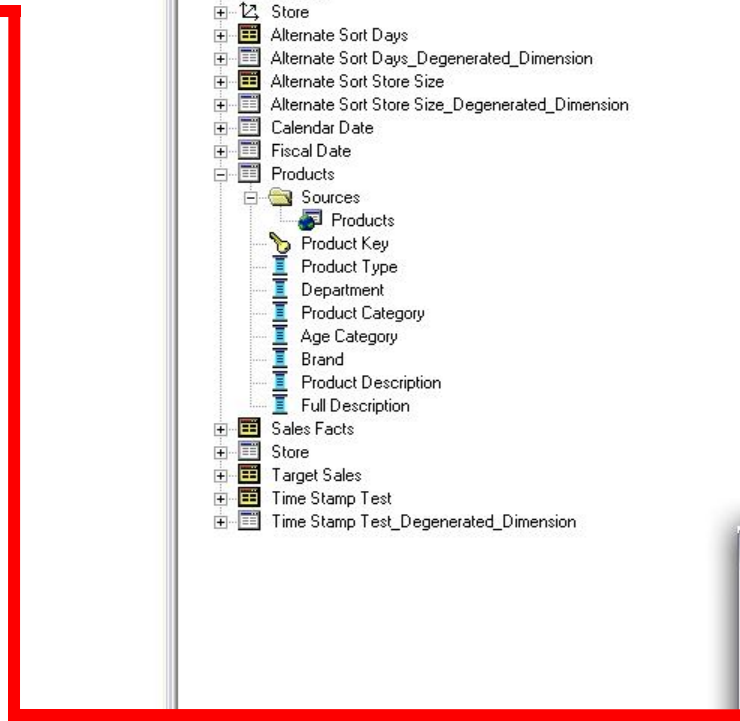
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 - TIME_STAMP_TEST
 - TIMES
 - Alternate Sort Days
 - Alternate Sort Store Size



Folder Properties From Discoverer

General Dependents

Attribute	Value
Name	Products
Description	Information about products
Visible to user	Yes
Database	<Default Database>
Owner	VIDEO5
Object	PRODUCT
Optimizer hints	
Identifier	DC_PRODUCT

The name that users will see to identify this object. Use mixed case text and spaces to give a meaningful name.

Automatically save changes after each edit

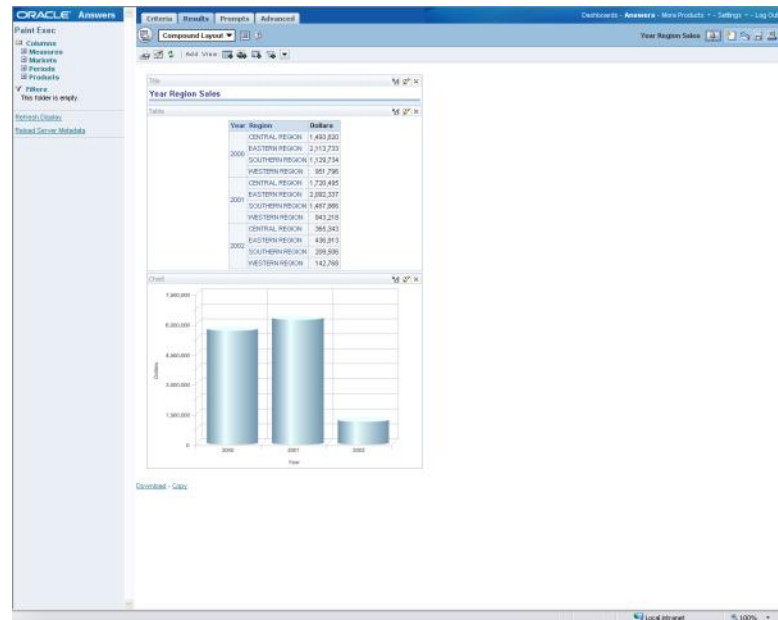
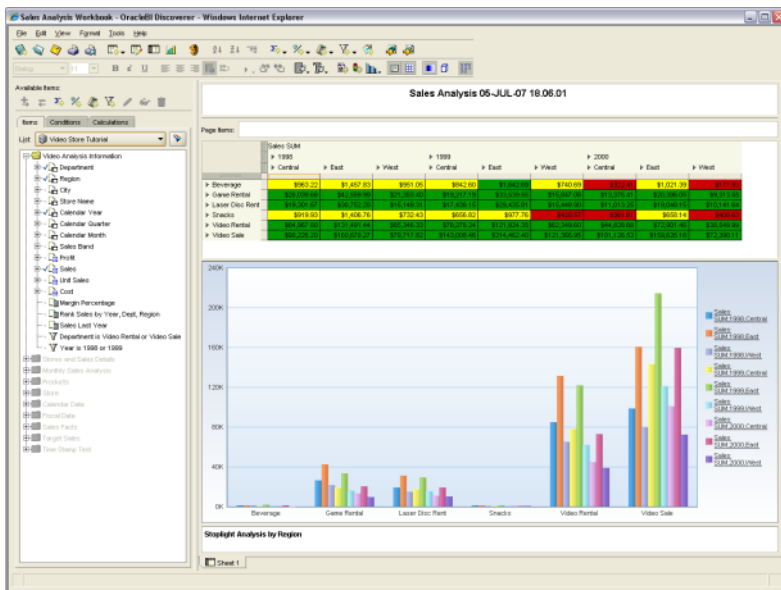
OK Cancel Apply Help

Workbook **Migration**

(to be released)

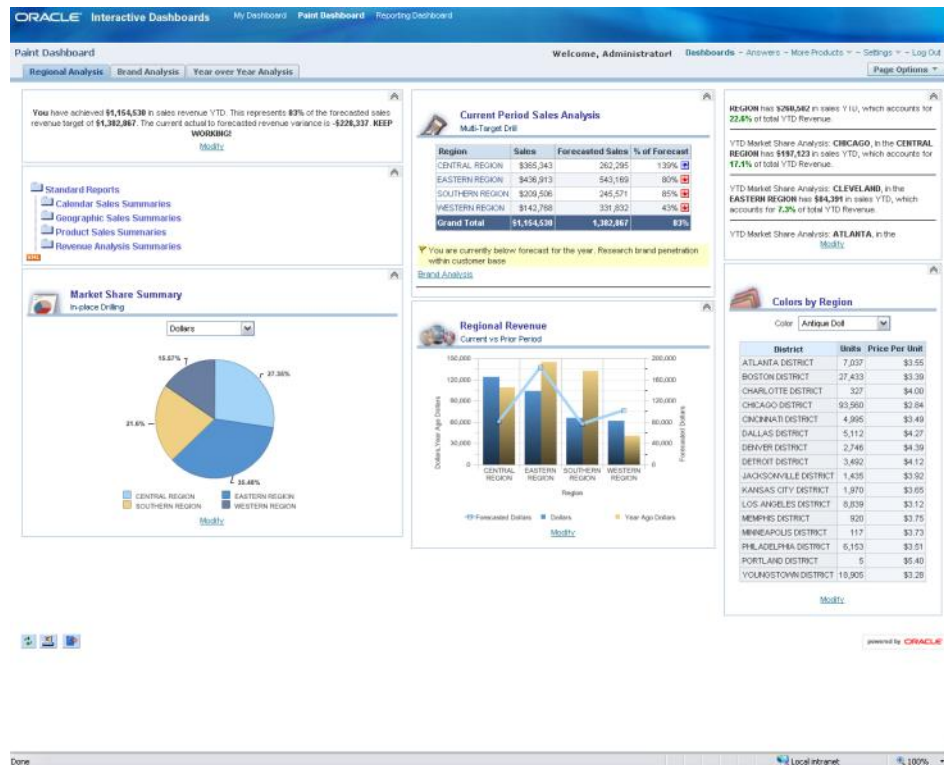
Workbook Migration

- Discoverer Worksheets → Answers Requests



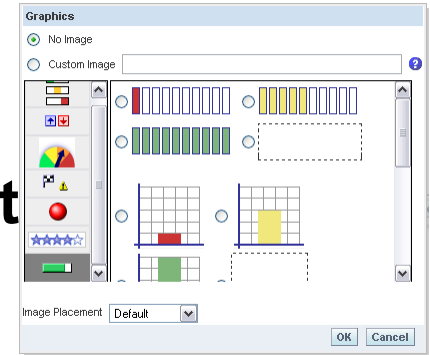
Workbook Migration






- No direct equivalent to workbook in BI EE
 - Dashboards can be used to group functionally related requests



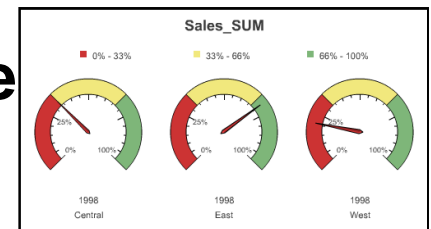
Workbook Migration

- **Same ability to conditionally format result**
 - **Extra capability in BI EE e.g. icons**



Customer Name	Credit Rating	Credit Limit	Average DSO	Total Revenue Due	Number of Orders	Total Order Revenue
ADR	 GOOD	10,000	10 	1,000	1	4,000
Mac Supplies	 GOOD	5,000,000	20 	5,000	1	65,000
PCS Computing	 BAD	200,000	50 	66,000	4	175,000
Vision	 GOOD	1,500,000	21 	406,000	2	610,000
iComp	 MEDIUM	300,000	15 	21,000	2	295,000

- **Extra visualizations in BI EE – e.g. Gauge**





Available Items:

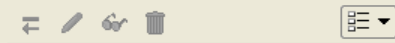


Items Conditions Calculations

List: Video Store Tutorial

- Video Analysis Information
 - Department
 - Region
 - City
 - Store Name
 - Calendar Year
 - Calendar Quarter
 - Calendar Month
 - Sales Band
 - Profit
 - Sales
 - Unit Sales
 - Cost
 - Margin Percentage
 - Rank Sales by Year, Dept, Region
 - Sales Last Year
 - Department is Video Rental or Video
 - Year is 1998 or 1999
- Stores and Sales Details
- Monthly Sales Analysis
- Products
- Store
- Calendar Date
- Fiscal Date

Selected items:

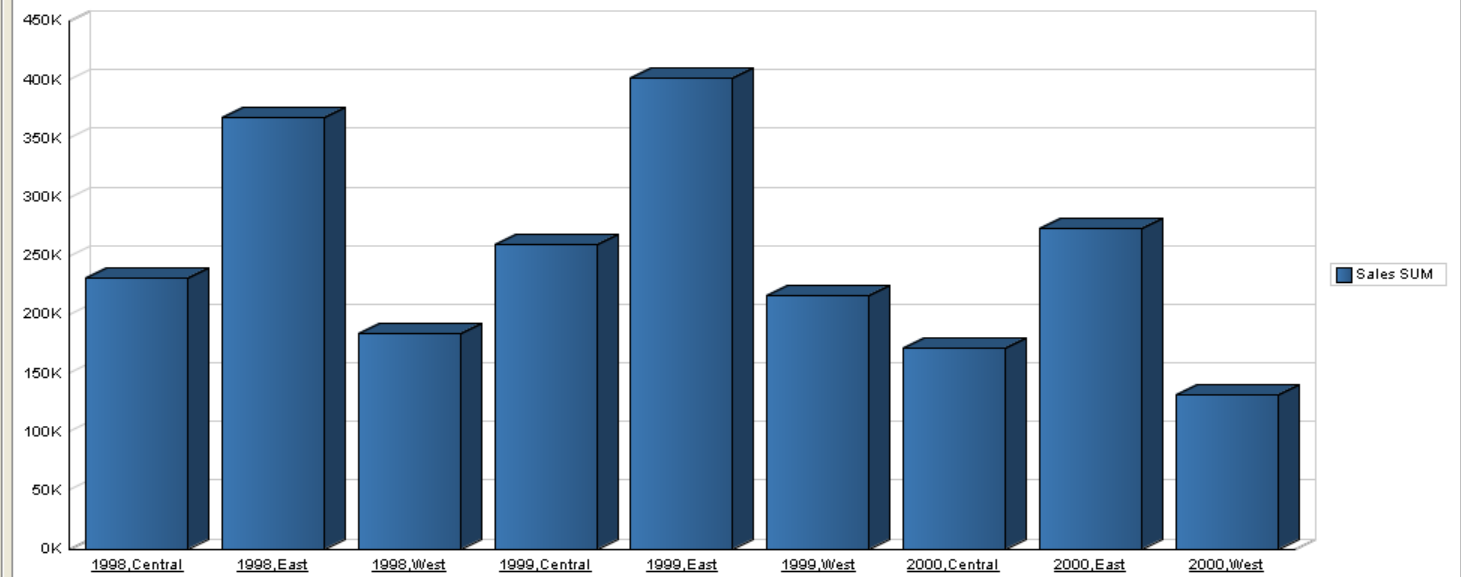


- Calendar Year
- Region
- Sales SUM

Year Region Sales

Page Items:

Year	Region	Sales SUM
1998	Central	230,418.30
	East	368,346.57
	West	183,260.34
1999	Central	259,437.46
	East	401,982.56
	West	216,173.79
2000	Central	171,027.88
	East	273,651.37
	West	130,981.85



Video Store Tutorial

- Columns
 - Calendar Date
 - Calendar Month
 - Calendar Day
 - Transaction Date
 - Time Key
 - Holiday Flag
 - Day Of Week
 - Calendar Year
 - Calendar Quarter
 - Fiscal Date
 - Monthly Sales Analysis
 - Products
 - Product Type
 - Product Category
 - Full Description
 - Product Description
 - Department
 - Brand
 - Age Category
 - Sales Facts
 - Store
 - Store Size
 - Store Name
 - Reports
 - Region
 - Floor Plan Type
 - City
 - Store Key
 - Stores and Sales Details
 - Target Sales
 - Time Stamp Test
 - Video Analysis Information
- Filters
This folder is empty.
- [Refresh Display](#)
- [Reload Server Metadata](#)

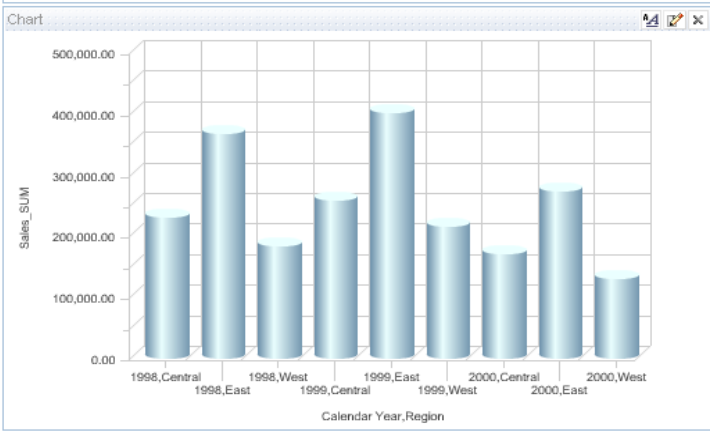
Compound Layout [?] Add View: [Icons]

Year Region Sales - Video [Icons]

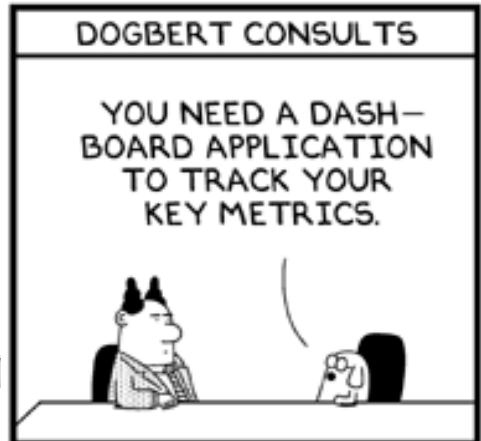
Title: Year Region Sales

Table

Calendar Year	Region	Sales_SUM
1998	Central	230,418.30
	East	368,346.57
	West	183,260.34
1999	Central	259,437.46
	East	401,982.56
	West	216,173.79
2000	Central	171,027.88
	East	273,651.37
	West	130,981.59



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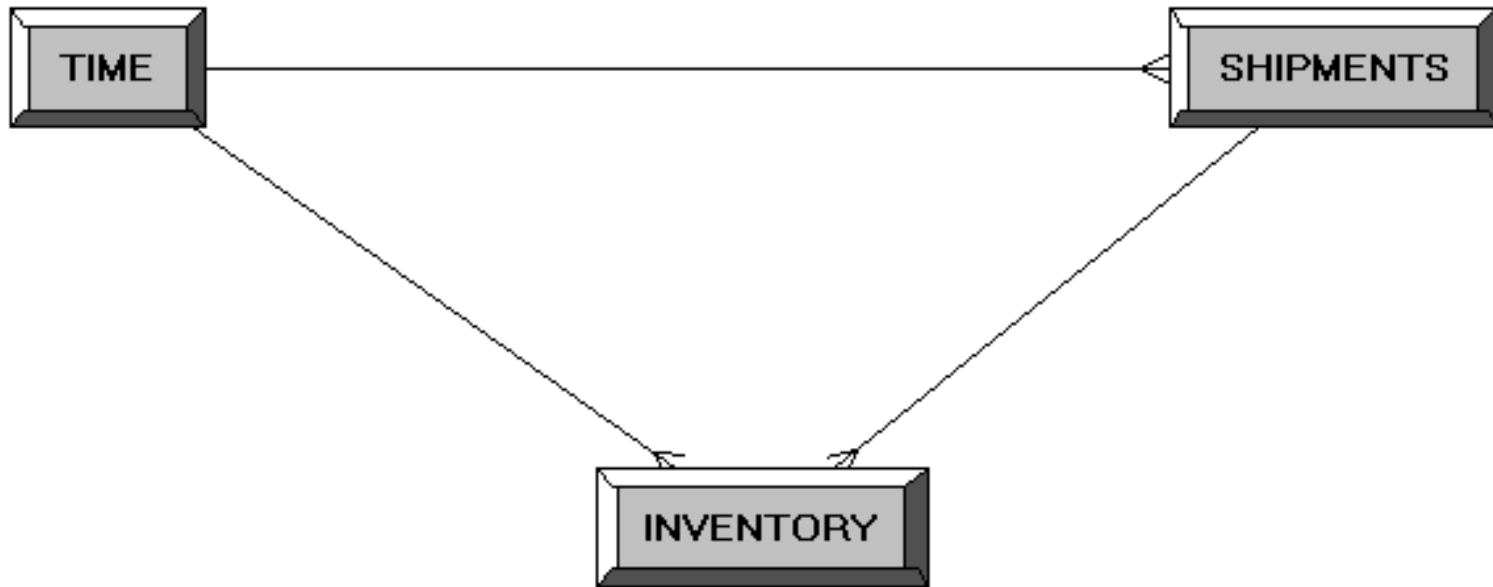


Migration Considerations

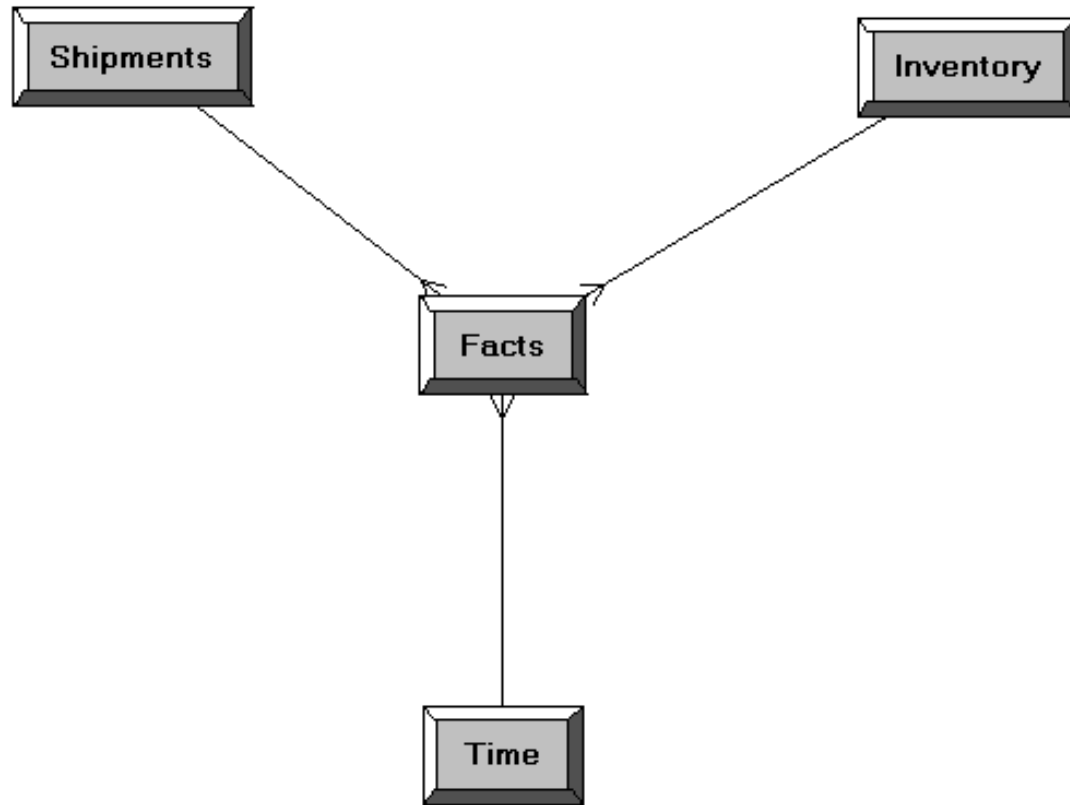
- **What type of system do you wish to migrate?**
 - Data warehouse
 - Custom built solution – 3NF
 - Oracle Applications reporting (e.g. BIS)
- **What aspects of the system need to be migrated?**
 - Metadata
 - Workbooks and worksheets

Goal : To introduce OBIEE as we talk about Discoverer

Discoverer – Circular Join



OBIEE – Logical Star



In Review - Applications

Description	DBI	Fusion Intelligence	Oracle BI Applications
Platform	DBI: Integrated reporting tool fully contained on the EBS platform, no separate tools (licensing) required.	DBI Licensing + OBI EE: Standardize enterprise wide on a single BI Platform	Application Intelligence + OBI EE: Standardize enterprise wide on a single BI Platform
Heterogeneity	EBS Only	EBS + External Data Sources	Support for data from any Source (Oracle, DB2, SQL, etc) Support for data from multiple ERP instances (SAP, EBS, PS, JDE)
Ad Hoc	None	Full Ad hoc capabilities	Full Ad hoc capabilities
Extensibility	Limited capabilities	Full capability to customize metrics and dashboards	Full capability to customize metrics, dashboards, and extend data model
Data Layer	Data resides in transactional DB	Data resides in transactional DB	Data resides in separate instance

Custom OBIEE Development

- Example of EBS as source of data
- Knowledge of different Schemas
- Naming conventions
- Security of Objects

EBS Object Names

Object Name	Function of the object	E.g.
_ALL	Underlying table with all the values	PO_DISTRIBUTIONS_ALL
_B	Base of underlying table, same as _ALL	
_TL	Language translation table with translation of descriptive fields in different languages	
_VL	View based on translation table	OKE_K_Deliverables_VL
_BASIC_V	View on top of the Basic table	
_DFV	Descriptive Flex Field related view, it will have the defined values as Column names instead of generic attribute 1, ..2	
_KFV	Key Flex Field views contain the concatenated fields as it would be displayed to the user. For e.g. A field may consist of Division, Department and Account fields and the KFV will have the concatenated values.	

EBS Naming Conventions

- All objects accessed by EBS application have synonym in APPS schema, e.g. OKE.OKE_K_LINES has synonym APPS.OKE_K_LINES
- EBS Forms fetch data from a “user friendly” view with name ending is _V or _VL (e.g. OKE_K_Deliverables_VL).
- Views have descriptive value as opposed to the numeric id’s fields stored in the base table making it “human-readable” for reports.
- Views also implement security and restrictions to the data in various forms such as restrict values by language, org_id etc
- These variables are set by EBS (session context) when the user accesses data via the EBS application.

Some EBS Schema Names

AP - Oracle Payables

AR - Oracle Receivables

GL - Oracle General Ledger

INV - Oracle Inventory

MRP - Oracle Master Scheduling/MRP

PA - Oracle Projects

PAY - Oracle Payroll

PER - Oracle Human Resources

PJM - Oracle Project Manufacturing

WIP - Oracle Work in Process

WMS - Oracle Warehouse Management System

WSH - Oracle Shipping

WSM - Shop Floor Management

Some Tips and Tricks

- Take help from EBS users
 - Help > Record History (table, views)
 - Help > Examine (column)
 - Involve the users to develop MD50, MD70
- Sometimes users can point to an Oracle Report that has similar data source
 - The SQL from Oracle Report can help to jumpstart
 - Create views that OBIEE can use

Custom OBIEE - Summary

- Directly from Source System (e.g. EBS)
 - RICE development like skills needed
 - “Load” on the operation system
 - Good for stop gap arrangement, give users the Top-Ten reports to go-live
 - E.g. Gallup case study of Project Analytics
- From custom Data Warehouse
 - Big upfront effort / investment
 - Custom ETL, DW design etc

Getting Started OBIA

- Lookup what solutions exist EBS v.s Apps v.s. versions
- What to download – edelivery (<http://edelivery.oracle.com>)
- What to install - BI server and names of Analytic Apps
- Informatica (changes in Informatica)
- DAC
- Configuring Dashboard
- Domain Value files

Table 8. Supported Source Systems for Oracle Business Intelligence Applications 7.9.6

Vendor and Product	Version	Oracle Business Intelligence Application	Associated Source Application or Module
Oracle Applications	11.5.10, R12.0	Oracle Procurement and Spend Analytics Fusion Edition ³	Oracle Purchasing/ Procurement Oracle iProcurement Oracle Financials (Payables) Oracle iExpenses
		Oracle Financial Analytics Fusion Edition	Oracle Financials (GL, Payables, Receivables)
		Oracle Human Resources Analytics Fusion Edition	Oracle Human Resources Oracle Payroll Oracle Learning Management Oracle iRecruitment
		Oracle Project Analytics Fusion Edition ⁴	Oracle Project Costing Oracle Project Billing
		Oracle Service Analytics Fusion Edition	Oracle Teleservice ⁵ Oracle iSupport ⁵
Oracle's PeopleSoft Enterprise	8.9, 9.0	Oracle Financial Analytics Fusion Edition	Oracle's PeopleSoft Financials (GL, Accounts Payable, Accounts

Software Components

Select a Product Pack

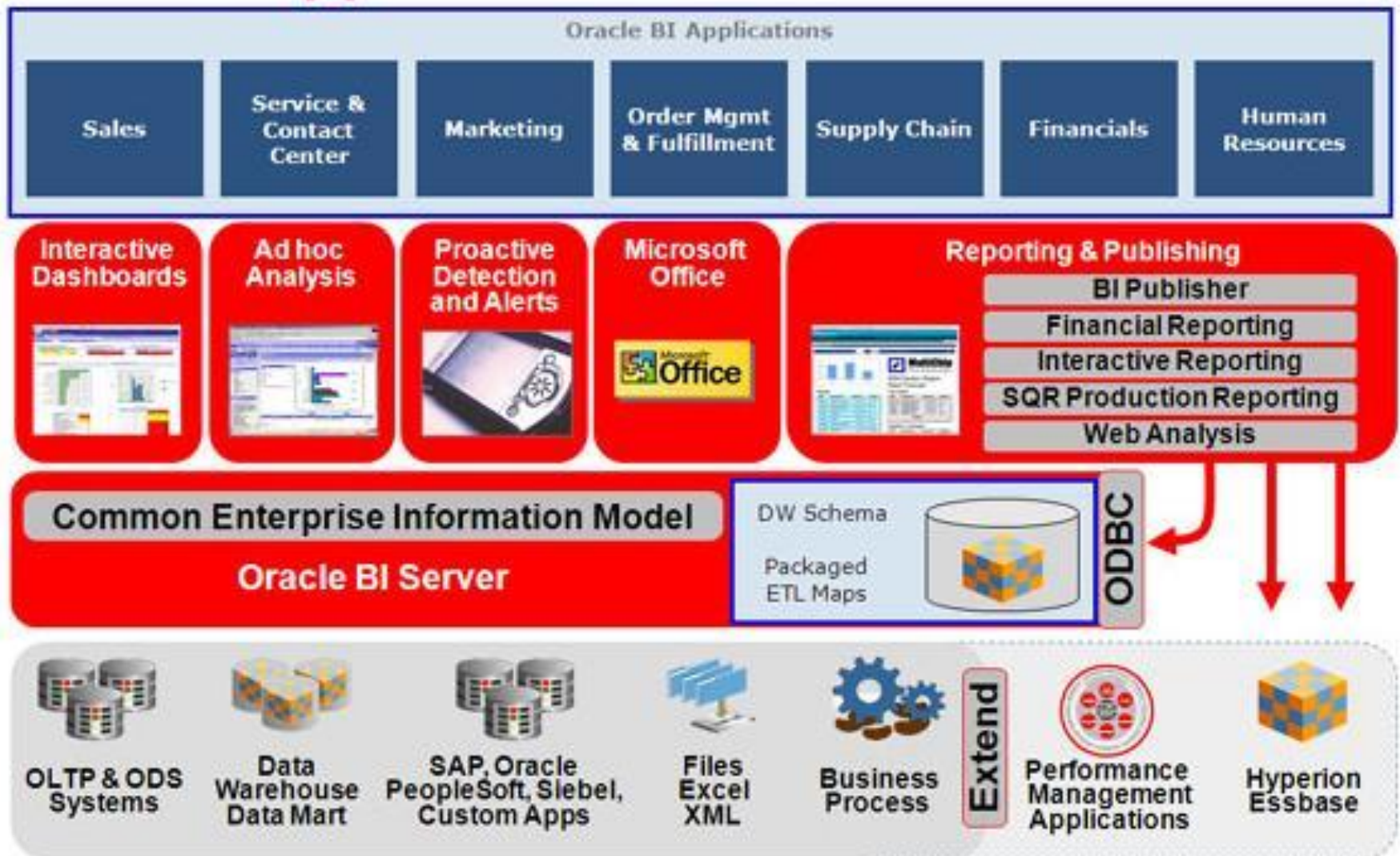
Platform

Results

Select	Description	Release	Part Number	Updated	# Parts / Size
<input checked="" type="radio"/>	Oracle Business Intelligence (10.1.3) Media Pack for Microsoft Windows (32-bit)	10.1.3.0.0	B36246-24	AUG-10-2009	52 / 31G
<input type="radio"/>	Oracle Business Intelligence 10g Release 1 (10.1.2.0.2) Standard Edition Media Pack	10.1.2.0.2	B35739-01	NOV-09-2006	23 / 11G
<input type="radio"/>	Oracle Business Intelligence Applications 7.9.5.2 for Oracle Data Integrator Media Pack for Microsoft Windows (32-bit)	7.9.5.2.0	B54513-01	APR-23-2009	14 / 6.2G

<input type="button" value="Download"/>	Oracle Business Intelligence Applications 7.9.6	V16390-01	319M
<input type="button" value="Download"/>	Oracle Business Intelligence Data Warehouse Administration Console 10.1.3.4.1 for Microsoft Windows	V16377-01	181M
<input type="button" value="Download"/>	Informatica PowerCenter and PowerConnect Adapters 8.6.0 for Windows x86 (32-bit) (Part 1 of 2)	V16329-01 Part 1 of 2	1.1G
<input type="button" value="Download"/>	Informatica PowerCenter and PowerConnect Adapters 8.6.0 for Windows x86 (32-bit) (Part 2 of 2)	V16329-01 Part 2 of 2	977M

OBIA Block Diagram

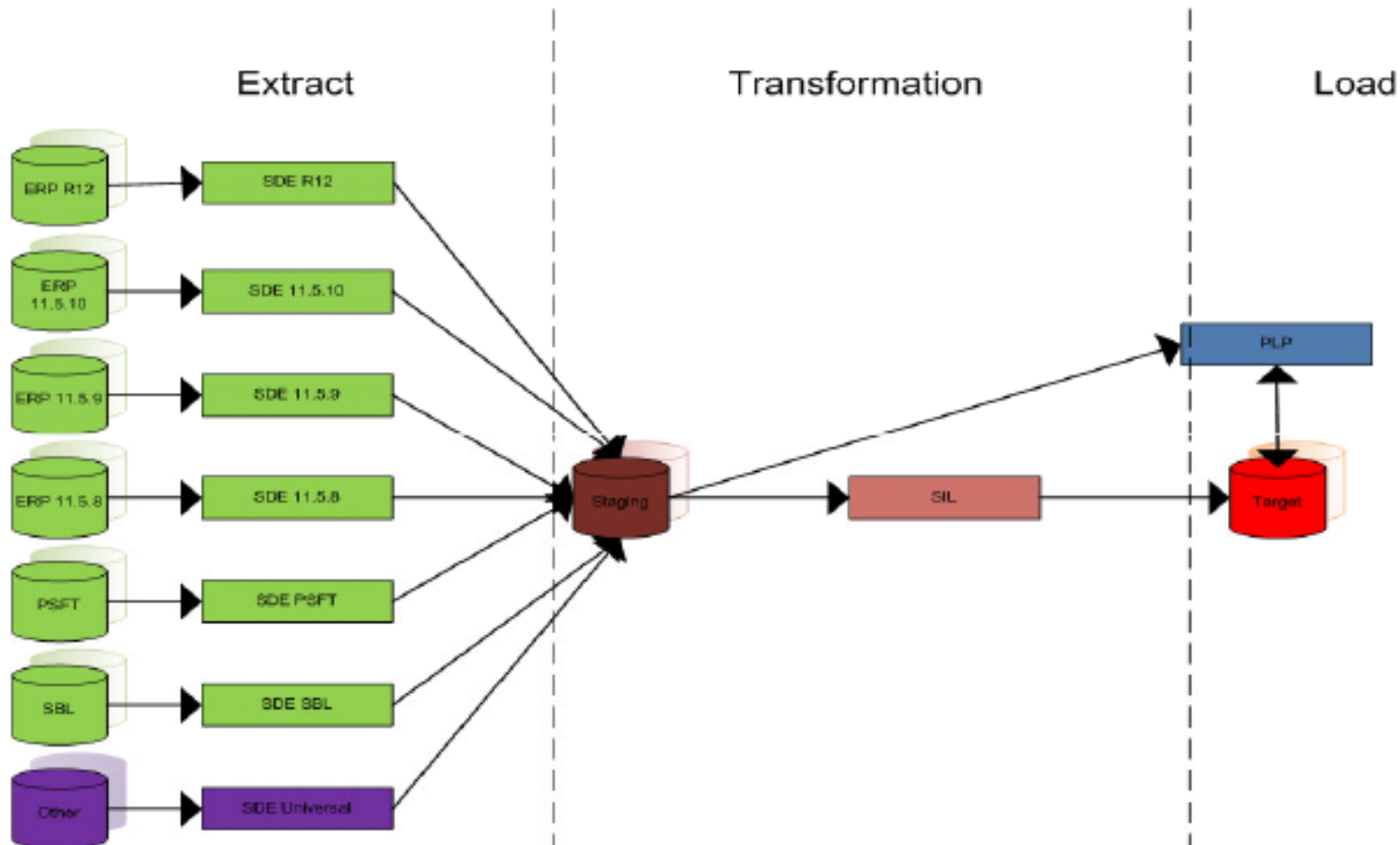


High Level Data Flow

- Source – eBS (Raw Data)
- ETL – Extraction Transform and Load (Informatica – PowerCenter or ODI)
- OBAW - Business Analytics Warehouse
- OBIEE Metadata
- OBIEE Content – Reports and Dashboards

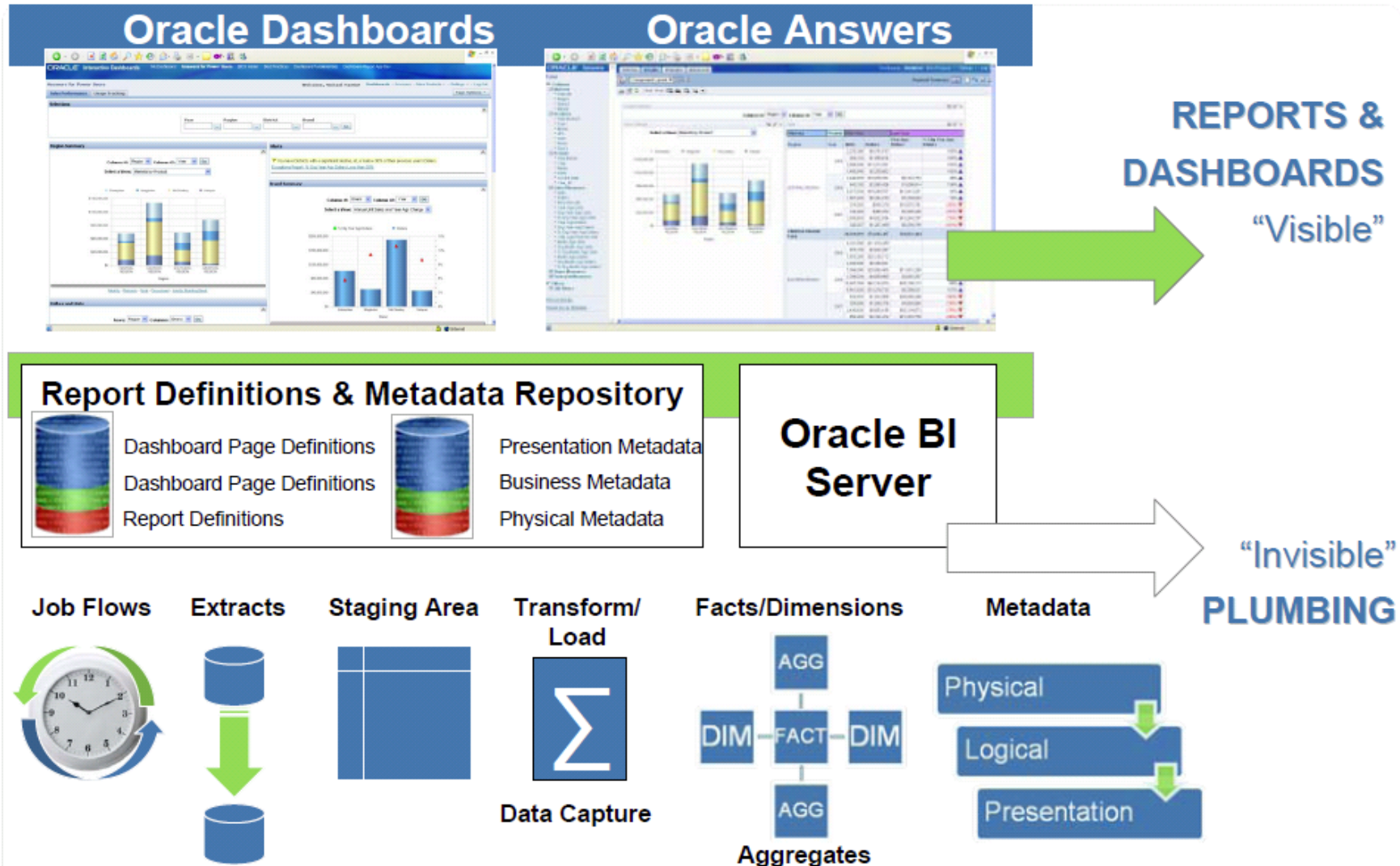


Modular Design of ETL

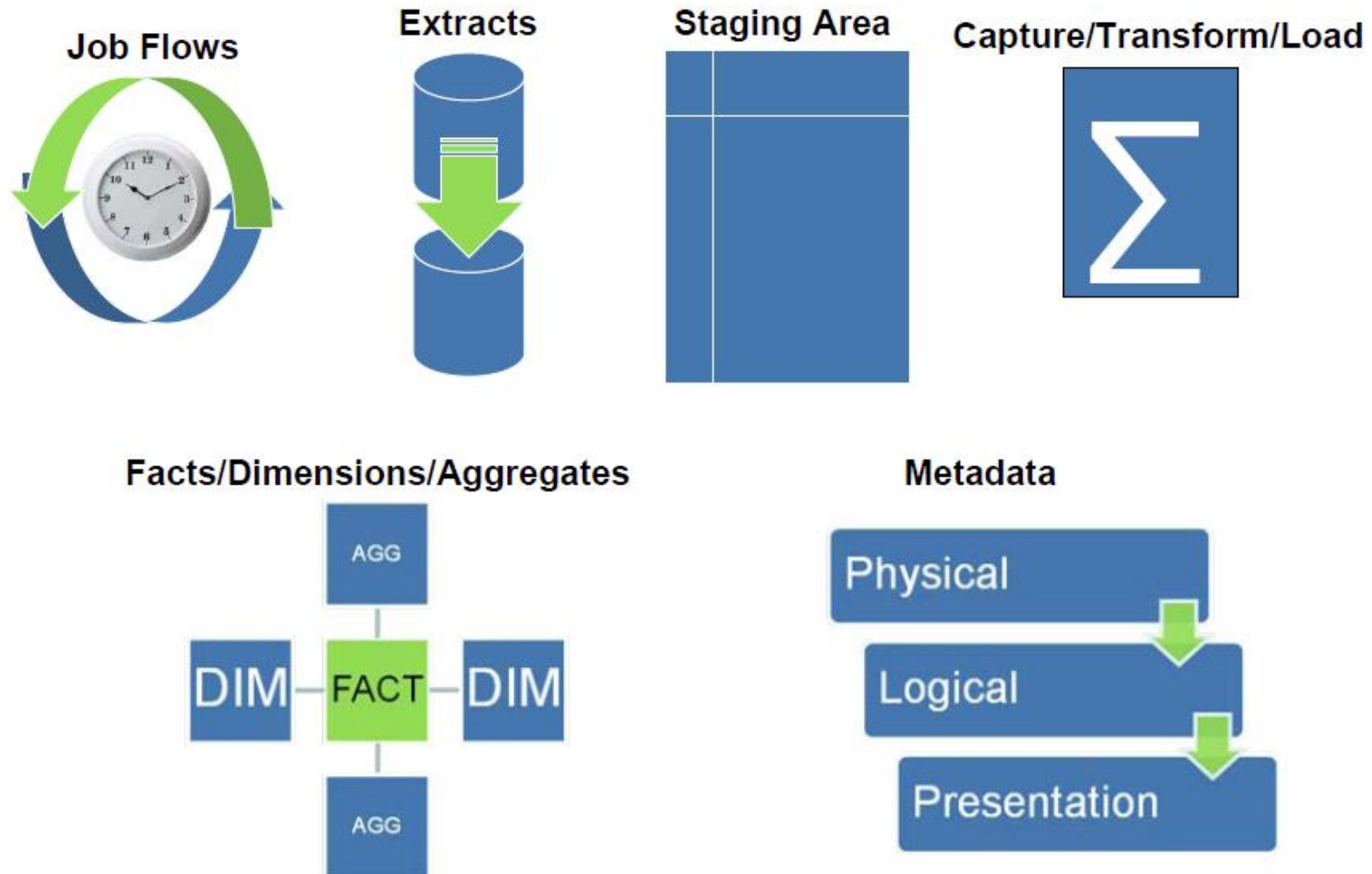


SDE: Source Dependent Extract
SIL : Source Independent Load
PLP: Post load Process

OBIEE – From Surface to Plumbing



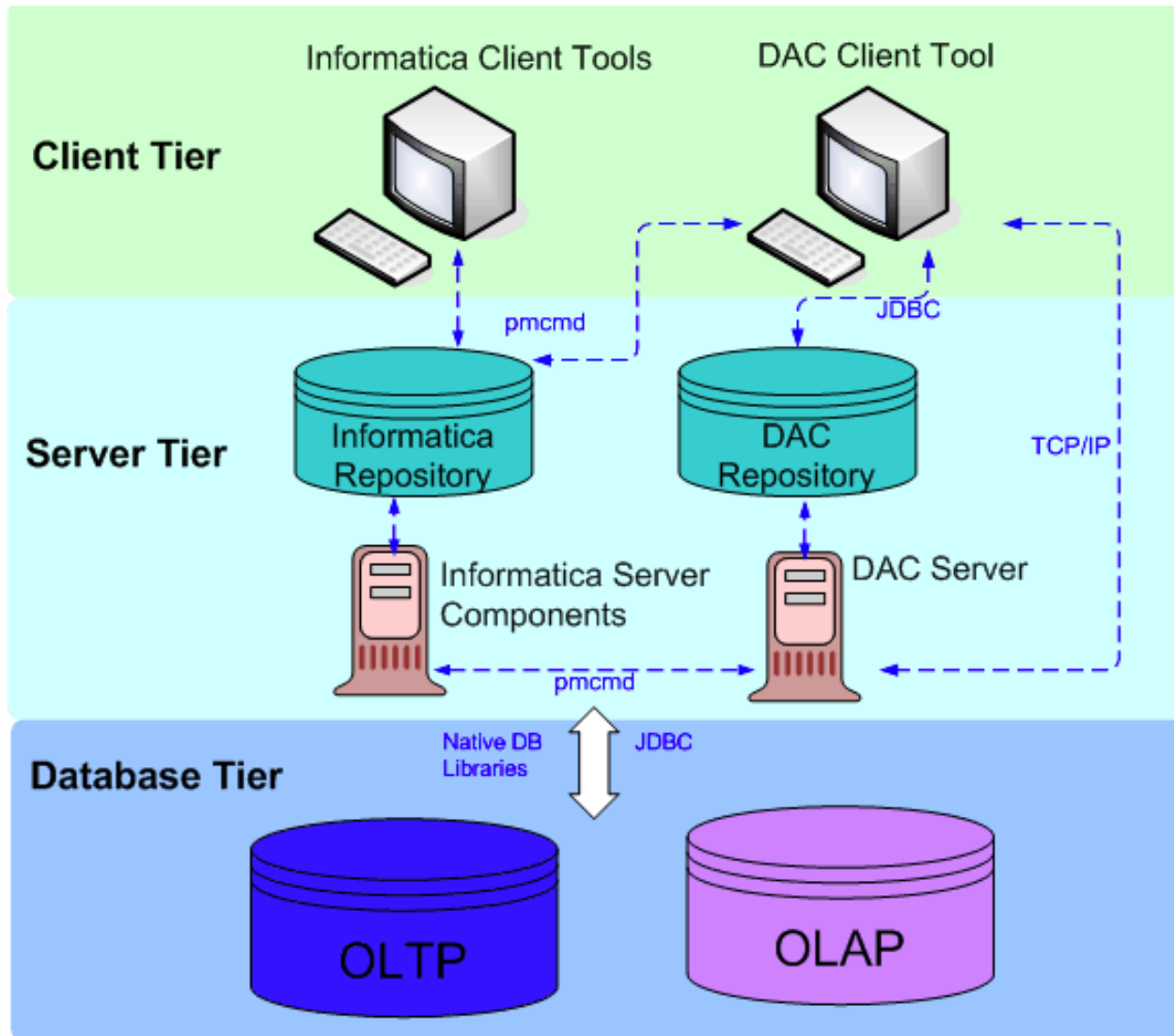
What's Below the Surface?



Installation / Post Installation Configuration

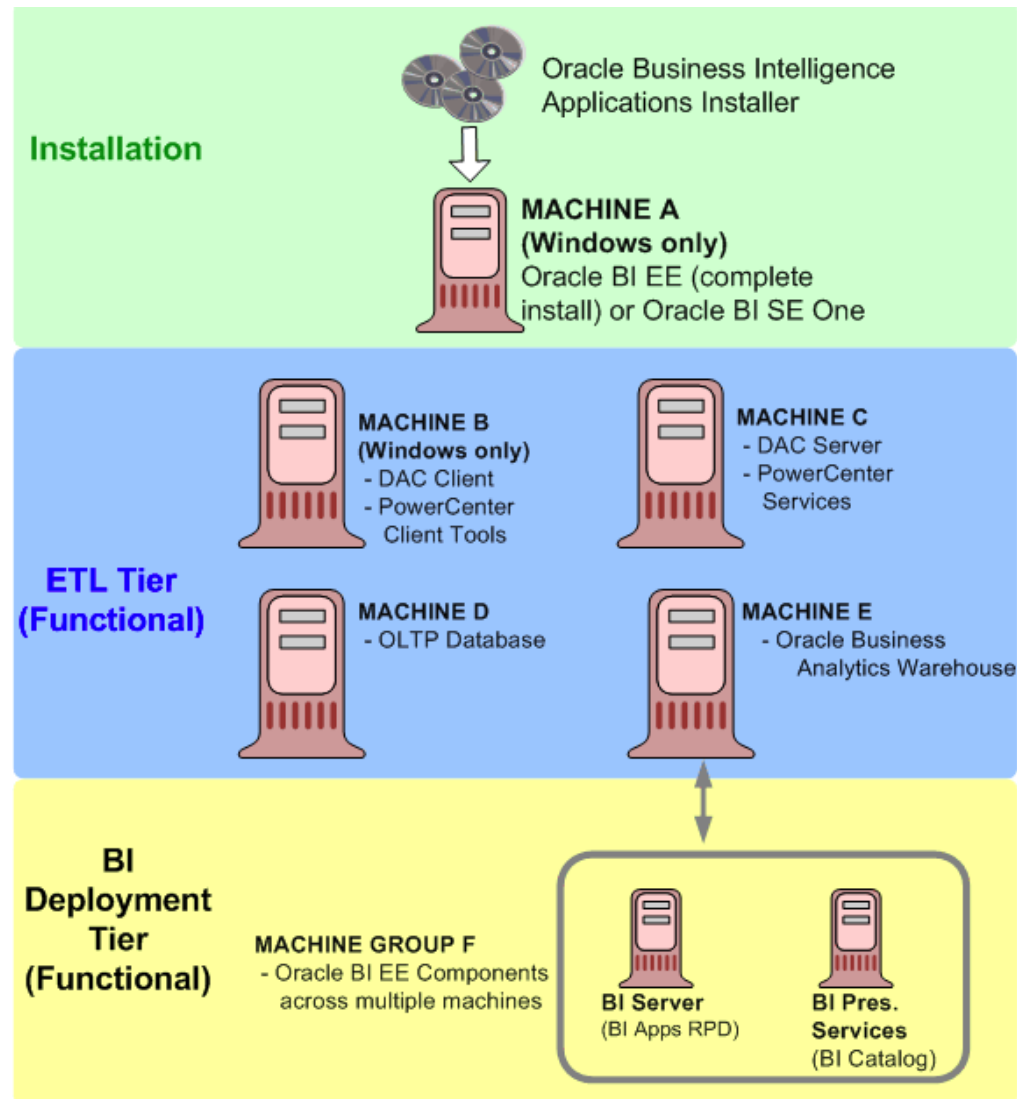
- Install OBIEE
- Install OBIA (e.g. 7.9.6)
- Create Target Database (e.g. 10.2.x or 11g)
- Install Informatica (e.g. 8.6, SP4)
 - Client
 - Server (Server / Repository)
 - Integration Service and Repository Service
- Install DAC (e.g. 10g)
 - Install DAC client
 - Install DAC Server
- Restore Informatica Repository
- Restore DAC Repository
- Register Informatica Repository services with DAC
- Connect DAC to DW
- Create Custom Container in Informatica for ETL loads

Supporting Infrastructure – Informatica and DAC



Install Process

- End user machines requires no software, browser based access
- Windows boxes required for client software and for transferring some server software (A and B)
- Co-location of Informatica PowerCenter Services and DAC Server – **C**
- Clients can be installed on multiple Windows boxes



OTN BI Apps Forum



Welcome, [shyamvaran](#)

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Category: Business Intelligence Applications

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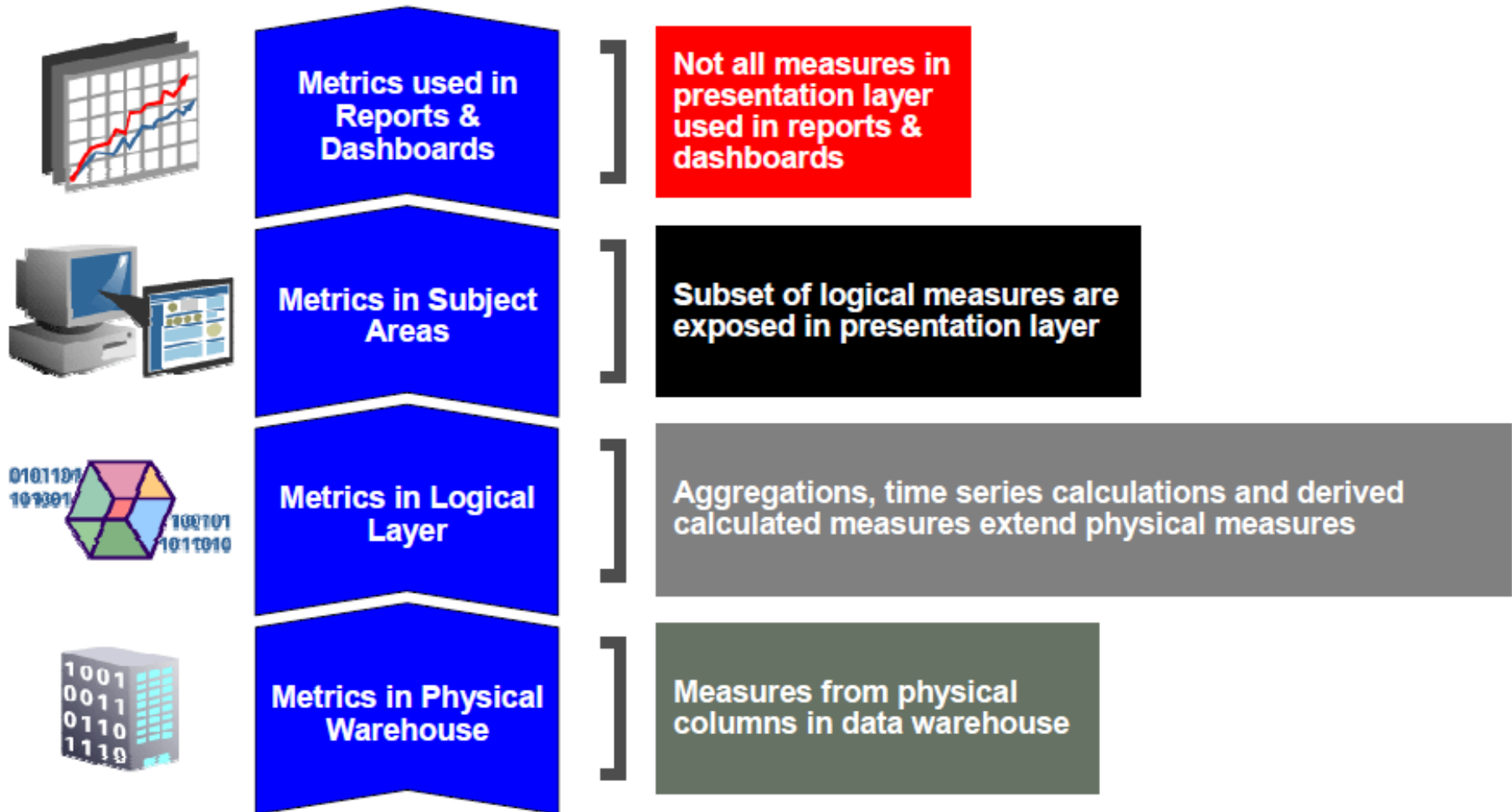
Recent threads in this category:

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Informatica Powercenter download	user5413658	Business Intell...	167	6	Sep 3, 2009 7:51 AM Last Post By: shyamvaran »
EBS FSG report in BI Apps ?	user9961042	Business Intell...	85	6	Sep 3, 2009 4:29 AM Last Post By: Christian Berg »
List of Dimensions by Subject Area	user2518425	Business Intell...	49	3	Sep 3, 2009 4:09 AM Last Post By: Mich@B »
One Data warehouse and two independent BI Apps datasources (HR and Finance)	user638629	Business Intell...	35	3	Sep 2, 2009 3:09 PM Last Post By: shyamvaran »
BI security	user634293	Business Intell...	22	0	Sep 2, 2009 2:24 PM Last Post By: user634293 »
Looking for the data loaded by ETL in Dashboard	user2518425	Business Intell...	208	8	Sep 2, 2009 2:20 PM Last Post By: user2518425 »
Building Hierarchies	user2518425	Business Intell...	14	0	Sep 2, 2009 2:17 PM Last Post By: user2518425 »
How to configure, Full Load and Incremental Load In DAC for customized data	kumr	Business Intell...	25	1	Sep 2, 2009 9:36 AM Last Post By: shyamvaran »
OBIA-Fin Link between W_GL_BALANCE_F and W_GL_SEGMENT_D	shyamvaran	Business Intell...	44	3	Sep 2, 2009 9:33 AM Last Post By: shyamvaran »

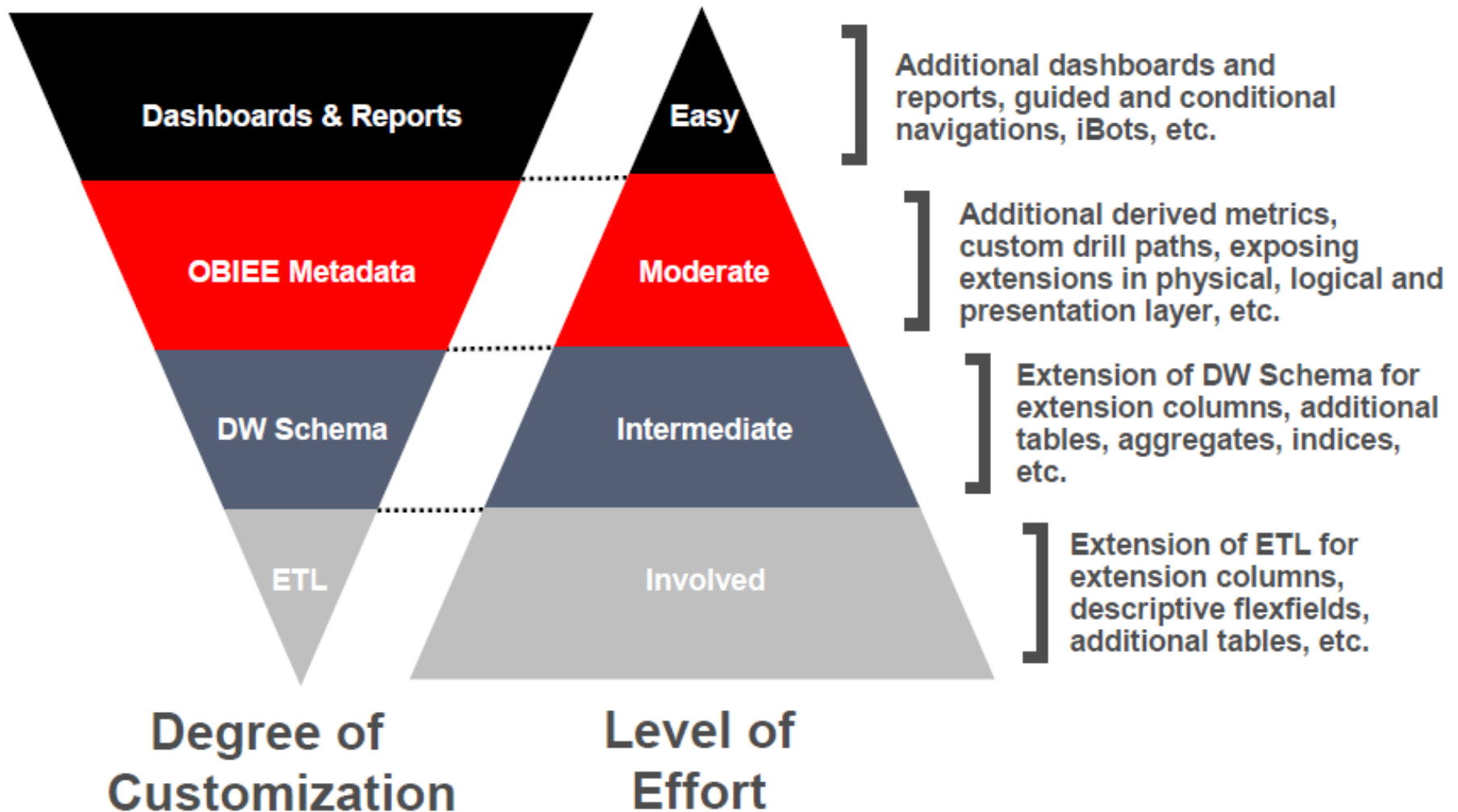
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at Sep 2, 2009 3:09 PM
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Value Added to the Layered Architecture



Effort v/s Customization Balance



Financial Analytics (7.9.x)

• No. of dashboards	5
• No. of dashboard pages	34
• No. of reports	225
• No. of metrics	385

- **General Ledger**

- Overview
- Balance Sheet
- Cash Flow
- Budget vs. Actual
- Asset Usage
- Liquidity
- Financial Structure
- GL Balance

- **Profitability**

- Overview
- P&L
- Margins
- Revenue
- Products
- Customers

- ~~**US Federal Financial Performance**~~

- ~~Budget Summary~~
- ~~Budget Details~~
- ~~Budget Spending~~
- ~~Payables~~

- **Receivables**

- Overview
- AR Balance
- Payments Due
- Effectiveness
- Payment Performance
- Customer Report
- Invoice Details
- All AR Transactions

- **Payables**

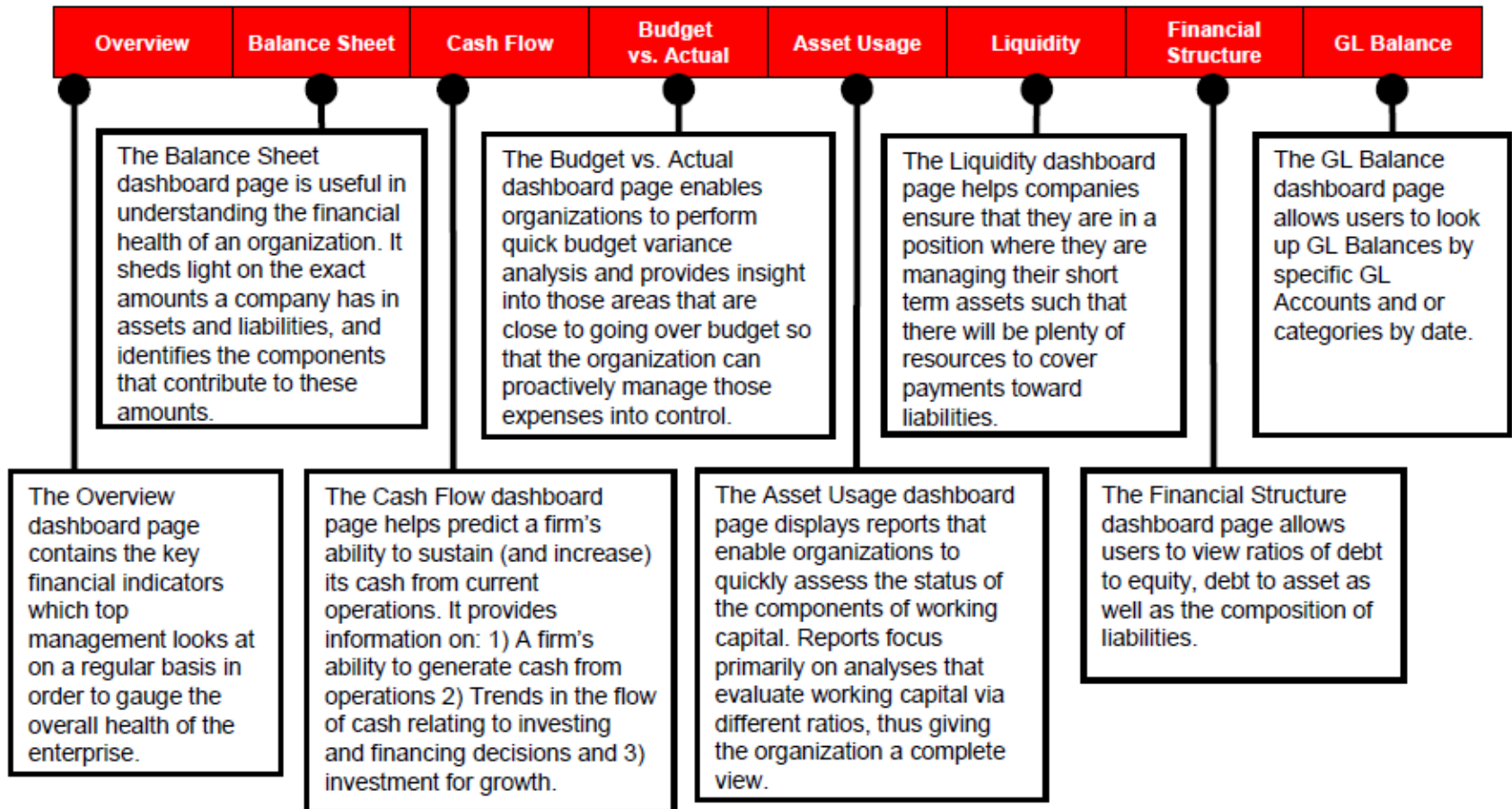
- Overview
- AP Balance
- Payments Due
- Effectiveness
- Payment Performance
- Supplier Report
- Invoice Details
- All AP Transactions

Target Roles for Financial Analytics

General Ledger	Profitability	Receivables	Payables	U.S. Federal Financial
Primary: <ul style="list-style-type: none"> • CFO • VP of Finance • Controller • Accounting Manager • Analyst 	Primary: <ul style="list-style-type: none"> • CFO • VP of Finance • Controller • Accounting Manager • Analyst 	Primary: <ul style="list-style-type: none"> • CFO • VP / Director of Credit and Collections • Collections Agent 	Primary: <ul style="list-style-type: none"> • CFO • VP / Director of Accounts Payable • Payables Analyst 	Primary: <ul style="list-style-type: none"> • CFO • Federal Budget Manager • Federal Budget Analyst • AP/AR Manager
Secondary: <ul style="list-style-type: none"> • Cost Center Owner • General Manager • Budget Owner 	Secondary: <ul style="list-style-type: none"> • Cost Center Owner • General Manager • Budget Owner 	Secondary: <ul style="list-style-type: none"> • Sales Professionals • Sales Operations 	Secondary: <ul style="list-style-type: none"> • Inventory Manager • Procurement Agent 	Secondary: <ul style="list-style-type: none"> • General Manager • Budget Owner

General Ledgers Dashboard

The General Ledger Dashboards have been designed to provide insight into key financial areas of performance, including balance sheet, cash flow, expenses, budget vs. actual, working capital, liquidity.



Financial Metrics (KPI's)

Example Financial Analytics Metrics

Receivables	Payables	General Ledger	Profitability
<u>AR Balance</u> <ul style="list-style-type: none"> • DSO • Closing Group Amt • Credit Limit Used % • Total AR Overdue Amt 	<u>AP Balance</u> <ul style="list-style-type: none"> • DPO • Closing Group Amt • Total AP Overdue Amt • Overdue Amt to Total % 	<u>Balance Sheet</u> <ul style="list-style-type: none"> • Cash • Accounts Receivable • Debt to Equity Ratio • Current Ratio 	<u>Profitability Returns</u> <ul style="list-style-type: none"> • Return on Equity • Return on Assets • Return on Capital
<u>AR Aging</u> <ul style="list-style-type: none"> • AR Aging 1-30 Amt • AR Due 1-30 Amt • AR Overdue 1-30 Amt 	<u>AP Aging</u> <ul style="list-style-type: none"> • AP Aging 1-30 Amt • AP Due 1-30 Amt • AP Overdue 1-30 Amt 	<u>Asset Turnover</u> <ul style="list-style-type: none"> • AR Turnover • AP Turnover • Inventory Turnover 	<u>Margins</u> <ul style="list-style-type: none"> • Gross Margin % • Operating Margin % • EBT Margin % • Net Income Margin %
<u>Payment Performance</u> <ul style="list-style-type: none"> • AR Payment Days • AR Weighted Days • Times Paid Before Due 	<u>Payment Performance</u> <ul style="list-style-type: none"> • AP Payment Days • AP Weighted Days • Times Paid Before Due 	<u>Cash Flow</u> <ul style="list-style-type: none"> • Cash Cycle • Fixed Assets Turnover • Operating Cash Flow • Investing Cash Flow • Financing Cash Flow • Net Cash Flow 	<u>Product Profitability</u> <ul style="list-style-type: none"> • Revenue • Product Gross Profit • Product Operating Profit
<u>AR Transactions</u> <ul style="list-style-type: none"> • AR Avg Invoice Amt • AR Credit Memo Amt 	<u>AP Transactions</u> <ul style="list-style-type: none"> • AP Avg Invoice Amt • AP Avg Payment Amt 		<u>Customer Profitability</u> <ul style="list-style-type: none"> • Revenue • Customer Gross Margin

Sample Pre-Built Dashboards

Financial Controller	Receivables Manager	Payables Manager	Department Manager
<ul style="list-style-type: none"> • Balance Sheet • Cash Flow • Budget Vs Actual • P&L 	<ul style="list-style-type: none"> • AR Balance • Payments Due • Effectiveness • Invoice Details 	<ul style="list-style-type: none"> • AP Balance • Payments Due • Effectiveness • Invoice Details 	<ul style="list-style-type: none"> • Budget Vs Actual • P&L • Product Profitability • Customer Profitability

GL Reports – Cash Flow Summary

- **Purpose:**
 - Displays an overview of the components of cash flow over time
- **User Focus:**
 - CFO, VP of Finance, Controllers, Accounting Managers, Analysts
- **Location:**
 - Dashboard – General Ledger
 - Page – Overview
- **Source:**
 - Financials - GL Cash Flow Subject Area

	2001 Q 1	2001 Q 2	2001 Q 3	2001 Q 4
Operating Cash Flow	\$20,372,968,230	\$1,789,030,207	(\$232,792,466)	(\$1,786,917,558)
Financing Cash Flow	(\$21,703,193,139)	(\$3,166,171,434)	\$108,223,494	\$411,347,657
Investing Cash Flow	\$36,018,583	\$642,094	\$376,504	\$378,512
Net Cash Flow	(\$1,294,206,326)	(\$1,376,499,133)	(\$124,192,470)	(\$1,375,191,488)

Configuring Financial Analytics Groups (Domain Value Files)

- Why knowledge of Oracle EBS (or the source system) is important?
- Reports are as good as its configuration
- How to configure Financial Reports using the Chart of Account Grouping?

Group Account Number Configuration

- EBS GL doesn't contain business attributes that represent a real world entity such as Supplier, Customer, and Employee etc.
- This information generally resides in the sub ledgers. For example, Supplier dimension in Accounts Payables (AP) and Customer dimension in Account Receivables (AR).
- In Oracle GL, the transactions are tracked at an account level and used more for book keeping purposes.
- To facilitate reporting on the GL TX's in DW environment, Fina Apps uses Group Account Number to categorize the accounting TX's.

Group Account Number Configuration

Purchase Order Transaction (header)						
Purchase Order#	Buyer	Supplier	Location	Start Date	Amount	

Dimension

Fact

GL Journal Entry				
Journal#	Period	Account Combination	Creation Date	Amount

Dimension

Fact

Group Account Number Configuration

Out of the box Balance Sheet report

Monthly Balance Sheet

	2005 / 07	2005 / 08	2005 / 09
Cash	\$2,516,851,372	\$2,516,648,175	\$2,516,648,325
Accounts Receivable	\$3,099,478,936	\$2,756,469,938	\$3,172,745,234
Inventories	\$204,383,845	\$204,383,845	\$204,383,845
Prepaid Expenses	\$6,418,553	\$6,418,553	\$6,418,553
Other Current Assets	\$1,866,680	\$1,866,680	\$1,866,680
Current Assets	\$2,871,999,300	\$2,915,657,603	\$3,250,566,751
Net PPE	\$45,206,743	\$45,206,743	\$45,206,743
Goodwill	\$4,719,952	\$4,719,952	\$4,719,952
Other Assets	\$76,850	\$76,850	\$76,850
Long Term Assets	\$11,843,974	\$11,843,974	\$11,843,974
Total Assets	\$2,883,843,274	\$2,927,501,577	\$3,270,510,724
Accounts Payable	(\$3,276,930,709)	(\$779,579,526)	\$2,626,996,604
Accrued Liabilities	(\$18,690)	\$0	\$0
Short Term Borrowing	\$6,657,360	\$6,683,549	\$6,683,549
Other Current Liabilities	(\$919,958)	\$87,204	\$87,204
Current Liabilities	(\$3,271,211,996)	(\$772,808,774)	\$2,633,767,356
Long Term Debt	\$2,096	\$5,053	\$5,053
Other Liabilities	\$63,627,720	\$63,627,720	\$63,627,720
Long Term Liabilities	\$63,629,816	\$63,632,773	\$63,632,773
Preferred Stock	(\$15,111)	\$0	\$0
Common Stock	\$175,846,389	\$175,846,389	\$175,846,389
Retained Earnings	\$19,800,759	\$19,800,759	\$19,800,759
Other Equity	(\$17,892)	\$0	\$0
Total Shareholders Funds	(\$33,003)	\$0	\$0
Total Liabilities	(\$3,207,582,190)	(\$709,176,001)	\$2,697,400,129

Metadata repository (rpd file)

The screenshot shows the Oracle BI Administration Tool interface for the metadata repository 'OracleBIAnalyticsApps.rpd'. The 'Presentation' pane on the left shows a tree structure under 'Facts - Balance Sheet Statement' with 'Prepaid Expenses' selected. The 'Business Model and Mapping' pane on the right shows a list of business model elements, with 'Prepaid Expenses' also selected. A blue arrow points from the 'Prepaid Expenses' entry in the 'Presentation' pane to the 'Prepaid Expenses' entry in the 'Business Model and Mapping' pane.

Group Account Number Configuration

Metadata repository (rpd file)

The screenshot displays the Oracle BI Administration Tool interface for configuring a metadata repository. The main window is titled "Oracle BI Administration Tool - OracleBIAnalyticsApps.rpd" and features a menu bar (File, Edit, View, Manage, Tools, Window, Help) and a toolbar. The interface is divided into two main panes: "Presentation" on the left and "Business Model and Mapping" on the right. The "Presentation" pane shows a hierarchical tree structure under "Facts - Balance Sheet Statement", with "Prepaid Expenses" selected. The "Business Model and Mapping" pane shows a list of business model elements, with "Prepaid Expenses" also selected. A dialog box titled "Logical Column - Prepaid Expenses" is open in the foreground, showing the configuration for the logical column. The "Data Type" is set to "DOUBLE", and the "Data Type derives from physical sources:" field contains the following SQL filter: `FILTER(last(sum(Fact_w_GL_BALANCE_F.BALANCE_GLOBAL1_AMT)) USING Dim_w_GL_ACCOUNT_D.GROUP_ACCOUNT_NUM = PPAID EXP)`. The dialog box has tabs for "General", "Data Type", "Aggregation", and "Levels", and buttons for "OK", "Cancel", and "Help".

Oracle BI Administration Tool - OracleBIAnalyticsApps.rpd

File Edit View Manage Tools Window Help

Presentation

- Profit Center
- Facts - Balance Sheet Statement
 - Cash
 - Accounts Receivable
 - Raw Material Inventory
 - Work in Process Inventory
 - Finished Goods Inventory
 - Inventories
 - Prepaid Expenses
 - Other Current Assets
 - Current Assets
 - PPE
 - Accumulated Depreciation
 - Net PPE
 - Goodwill
 - Other Assets
 - Long Term Assets
 - Total Assets

Business Model and Mapping

- Other Income
- Other Current Assets
- Other Assets
- Other Liabilities
- Other Current Liabilities
- Other Equity
- Product Variance Expenses
- Purchases
- Prepaid Expenses
- PPE
- Preferred Stock
- P&L Amount

Logical Column - Prepaid Expenses

General Data Type Aggregation Levels

Data Type: DOUBLE Length: Nullable:

Data Type derives from physical sources:

```
FILTER(last(sum(Fact_w_GL_BALANCE_F.BALANCE_GLOBAL1_AMT)) USING Dim_w_GL_ACCOUNT_D.GROUP_ACCOUNT_NUM = PPAID EXP)
```

OK Cancel Help

Group Account Number Configuration

Metadata repository (rpd file)

The screenshot shows the 'Logical Column - Prepaid Expenses' configuration window. The 'Data Type' is set to 'DOUBLE'. The 'Data Type derives from physical sources' section contains the following SQL filter: `FILTER(last|sum|Fact_W_GL_BALANCE_F.BALANCE_GLOBAL_AMT|) USING Dim_W_GL_ACCOUNT_D.GROUP_ACCOUNT_NUM = 'PPAID EXP'`. A blue box highlights the text 'PPAID EXP' in the filter, with a line pointing to the 'PPAID EXP' entry in the table below.

W_GL_BALANCE_F table

The screenshot shows the Oracle SQL*Plus window displaying the data for the W_GL_BALANCE_F table. The columns are GL_ACCOUNT_NUM, GROUP_ACCOUNT_NUM, and BALANCE_ACCT_AMT. The data is as follows:

GL_ACCOUNT_NUM	GROUP_ACCOUNT_NUM	BALANCE_ACCT_AMT
1952	OTHER_ASSET	29823584.7
1340	PPAID_EXP	52283467
1410	FG_INV	985158875.1
1471	WIP_INV	57269.78
1630	ACC_DEPCN	150079.25
1240	AR	7.3700E+10
1530	PPE	94805359.8
1220	AR	108123848
1210	AR	1.0478E+11

Group Account Number Configuration

W_GL_BALANCE_F table

Oracle SQL*Plus window showing the W_GL_BALANCE_F table data. The table has two columns: GL_ACCOUNT_NUM and GROUP_ACCOUNT_NUM. The data is as follows:

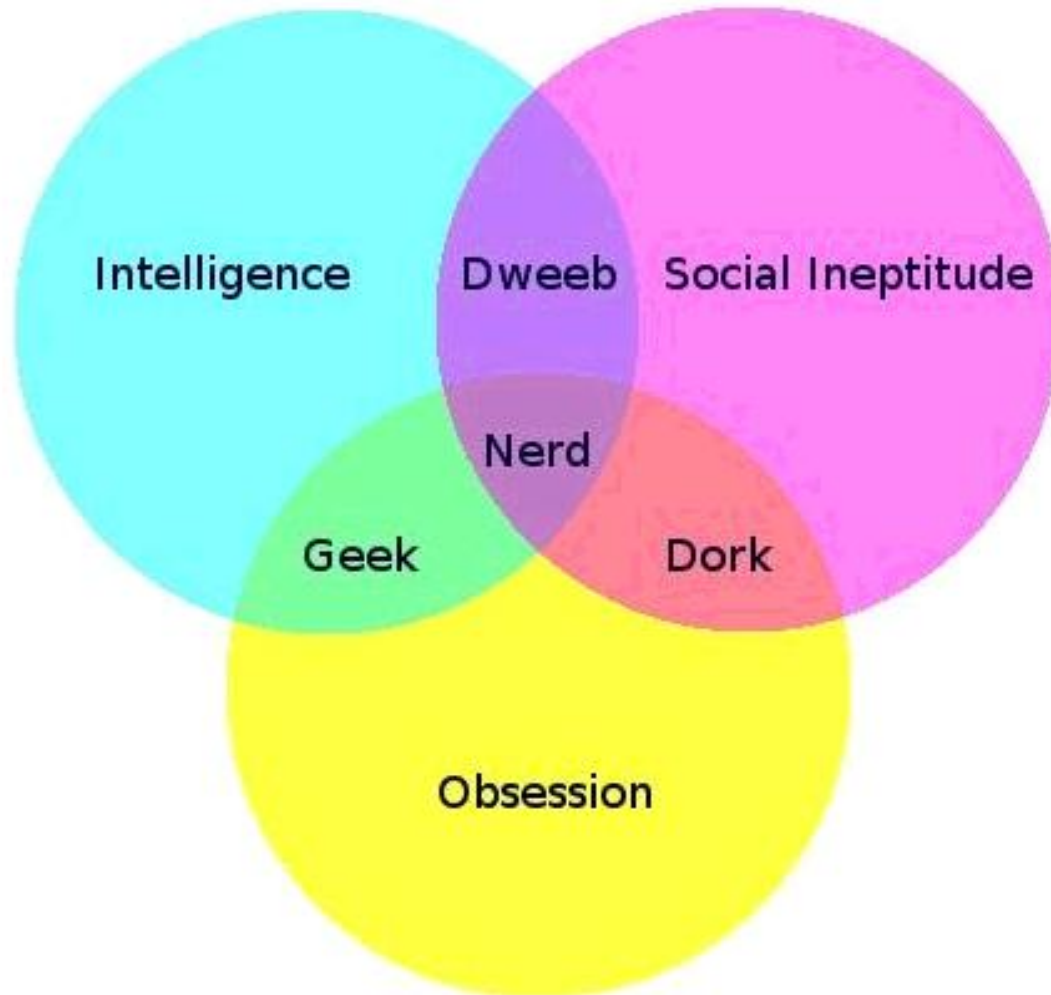
GL_ACCOUNT_NUM	GROUP_ACCOUNT_NUM
1952	OTHER ASSET
1340	PPAID EXP
1410	FG INV
1471	WIP INV
1630	ACC DEPCN
1240	AR
1530	PPE
1220	AR
1210	AR

file_group_acct_codes_ora.csv

Microsoft Excel window showing the file_group_acct_codes_ora.csv data. The spreadsheet contains the following data:

Chart of Account	FROM ACCT	TO ACCT	GROUP_ACCT_NUM
75	101	7820	7820 INT EXP
76	50194	1110	1110 CASH
77	50194	1210	1210 AR
78	50194	1220	1220 AR
79	50194	1240	1240 AR
80	50194	1280	1280 OTHER CA
81	50194	1340	1340 PPAID EXP
82	50194	1410	1410 FG INV
83	50194	1471	1471 WIP INV
84	50194	1530	1530 PPE
85	50194	1630	1630 ACC DEPCN
86	50194	1770	1770 GOODWILL
87	50194	1950	1950 SLS PAYROLL
88	50194	1951	1951 MKTG PAYROLL
89	50194	1952	1952 OTHER ASSET
90	50194	1953	1953 SLS PAYROLL
91	50194	1954	1954 R&D PAYROLL
92	50194	1955	1955 GEN PAYROLL
93	50194	1956	1956 EMP BENFT
94	50194	1957	1957 EMP SUPP
95	50194	1958	1958 CONT EXP
96	50194	1959	1959 OTHER R&D EXP
97	50194	1960	1960 CONT EXP
98	50194	220220	220220 TAX
99	50194	2210	2210 AP
100	50194	2370	2370 MKGT PAYROLL
101	50194	2700	2700 OTHER LIAB
102	50194	2990	2990 ST BORR
103	50194	2991	2991 LT DEBT
104	50194	2992	2992 CASH
105	50194	2993	2993 PREF STOCK
106	50194	2994	2994 ACC LIAB

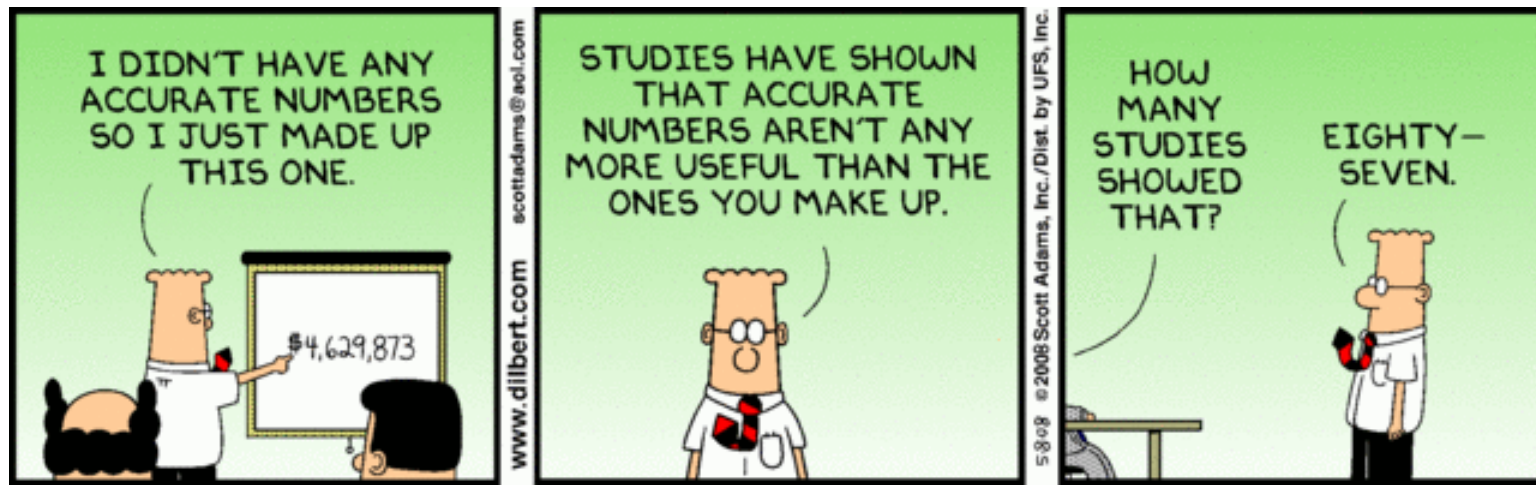
Summing up Account Hierarchy



The nerd/geek/dork/dweeb population hierarchy

Managing the OBIEE Project

- Quick Dev / Test environment install for **OBIEE Socialization**
- Show customer's data and invite users to start playing with it to **Create a Dashboard Envy**
- Fit Gap Analysis
- Iterate and fine tune the system



General Ledger - Overview

Ledger Name Profit Center Name Fiscal Year Fiscal Quarter Go

Cash Flow Summary
Click on the values to drill to further detail

Select View Pivot Table

	2008 Q 1	2008 Q 2	2008 Q 3	2008 Q 4
Operating Cash Flow	\$1,286,071,620.97	\$547,976,703.05	\$400,999,545.66	\$844,193,316.27
Financing Cash Flow	(\$1,379,117,840.15)	(\$737,202,096.21)	(\$611,333,439.22)	(\$898,968,694.29)
Investing Cash Flow	\$101,944,990.29	\$48,981,084.27	\$137,126,035.32	\$799,477,912.99
Net Cash Flow	\$8,898,771	(\$140,244,309)	(\$73,207,858)	\$744,702,535

Trailing Four Fiscal Quarters View

[Modify](#) - [Refresh](#) - [Print](#) - [Download](#)

To view the detailed cash flow report, please click on the following link to navigate over to Cash Flow Dashboard

[Cash Flow](#)

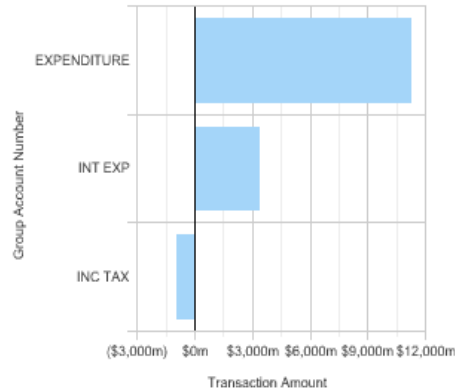
Searching... To cancel, click [here](#).

To view the complete balance sheet including the Long-Term Assets, please click here to navigate over to Balance Sheet Dashboard

Searching... To cancel, click [here](#).

Expenses by Category
Click on chart or values in table to drill to further details

Select View Chart



GL Account Category is equal to PL and Transaction Amount is in top 10 and Group Account Number is not equal to / is not in REVENUE, OTHER INC

Top 10 Cost Centers by Expenses
Click on the cost center to drill to further detail

Cost Center Name	Transaction Amount	% to Total
	\$2,355,592,322.45	22.9%
	\$1,908,033,612.31	18.5%
	\$1,134,150,394.74	11.0%
	\$933,942,645.14	9.1%
	\$893,094,503.04	8.7%
	\$880,648,101.59	8.5%
	\$782,606,026.48	7.6%
	\$641,574,866.52	6.2%
	\$426,573,359.91	4.1%
INC Consolidated Elimination Center	\$350,857,946.65	3.4%
Grand Total	\$10,307,073,778.83	100.0%

Jumpstart to show value with your own data

GL Account Category is equal to PL and Transaction Amount is in top 10 and Group Account Number is not equal to / is not in REVENUE, OTHER INC

[Modify](#) - [Refresh](#) - [Print](#) - [Download](#)

To view Cost Center Expense variances, please click here to navigate to Budget vs. Actual Dashboard

GL Balance Dashboard Page

ORACLE Interactive Dashboards My Dashboard Financials Human Resources Usage Accelerator

General Ledger Welcome, Oracle BI Applications Administrator! Dashboards - Answers - More Products - Settings - Log Out

Overview Balance Sheet Cash Flow Budget vs. Actual Asset Usage Liquidity Financial Structure **GL Balance** Trial Balance Page Options

Ledger Name Profit Center Name Financial Statement Item Group Account Number
Fiscal Year Fiscal Quarter Fiscal Period Go

GL Account Balance
Time run: 9/1/2009 2:52:41 PM

GL Account Number	GL Account Name	Financial Statement Item	Group Account Number	GL Account Category	Closing Amount
2640	2640	OTHERS	OTHER ASSET	BS	\$9,917,099,474.39
8318	8318	OTHERS	EXPENDITURE	PL	\$3,870,409,428.06
2641	2641	OTHERS	OTHER ASSET	BS	\$508,499,971.42
5523	5523	OTHERS	OTHERS	BS	\$431,082,212.91
0646	0646	AR	AR	BS	\$417,344,870.10
8163	8163	OTHERS	EXPENDITURE	PL	\$415,773,976.64
2643	2643	OTHERS	OTHER ASSET	BS	\$361,640,120.00
0621	0621	AR	AR	BS	\$317,181,947.17
0600	0600	AR	AR	BS	\$228,588,580.69
8004	8004	OTHERS	EXPENDITURE	PL	\$211,964,466.99

Records 1 - 10

Current Fiscal Quarter View

[Modify](#) - [Refresh](#) - [Print](#) - [Download](#) - [Add to Briefing Book](#)

Version 7.9.6 : Financials > General Ledger Page : GL Balance Page 1

Local intranet

start Calendar - Microsoft ... Untitled - Meeting Schedule for Headqu... Oracle BI Interactive ... Document1 - Microsof... 5:57 PM

Accounts Payable Related

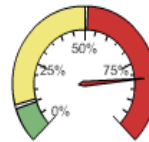


Searching... To cancel, click [here](#).

% AP Overdue



Searching... To cancel, click [here](#).



Fiscal Year is equal to **2009**
and Fiscal Quarter is equal to **2009 Q 3**

[Modify](#) - [Refresh](#)



Invoice Transactions Efficiency

Time run: 9/1/2009 2:53:12 PM

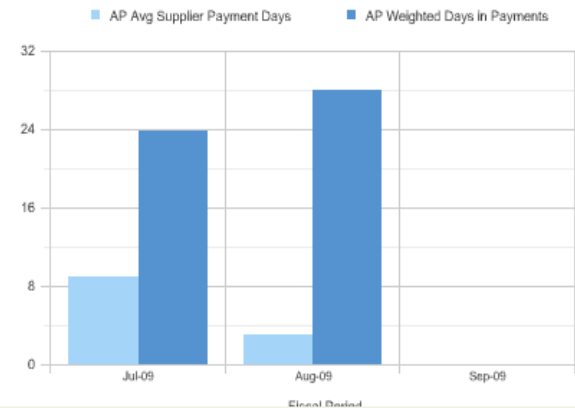
Select View



Payment Performance

Time run: 9/1/2009 2:53:12 PM

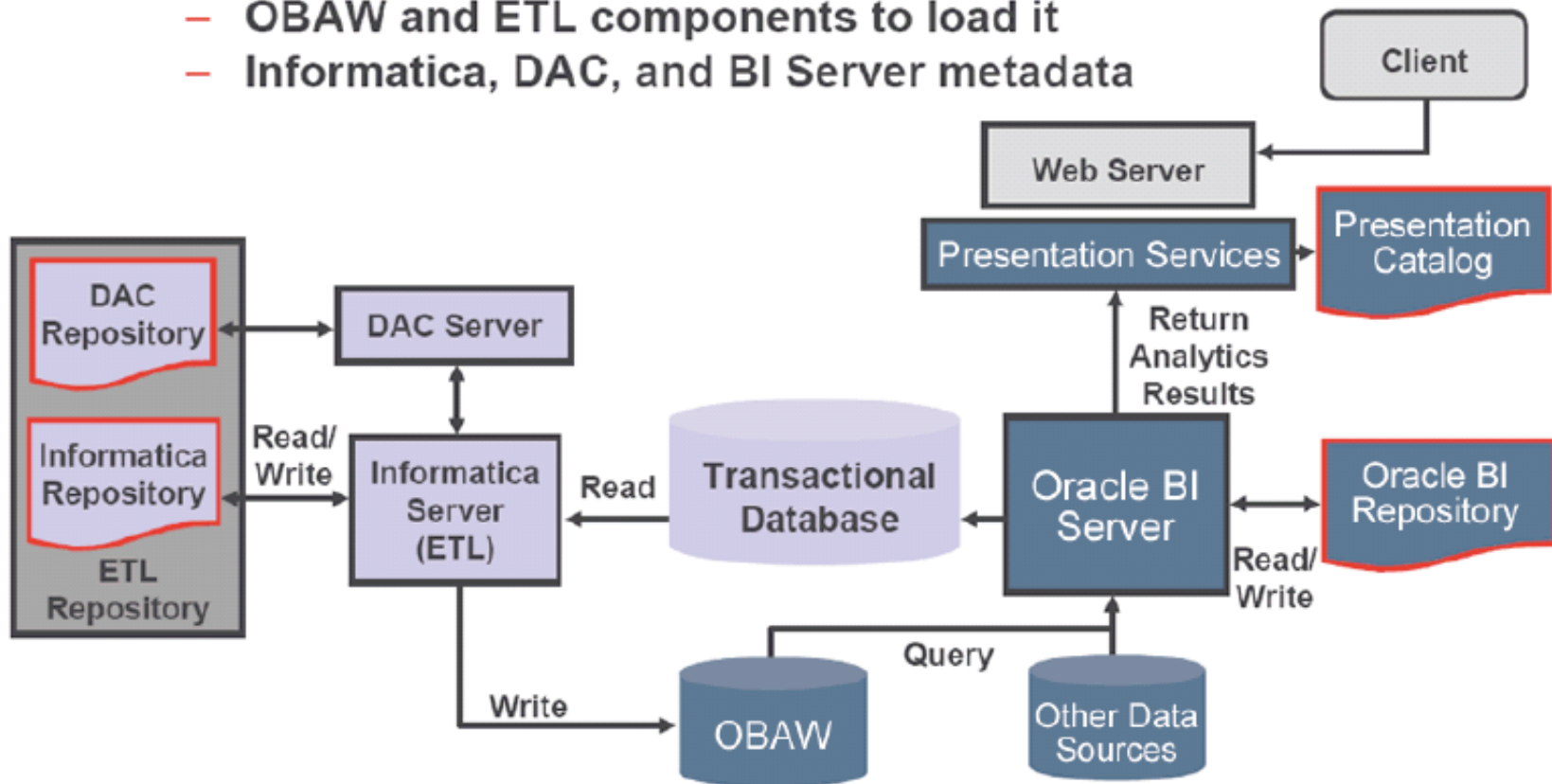
Select View



Local intranet

OBIA - Flow

- Includes infrastructure components and:
 - OBAW and ETL components to load it
 - Informatica, DAC, and BI Server metadata



SessLogs

File Edit View Favorites Tools Help

Data Warehouse Administration Console (Oracle_BI_DAC @ FCA1DAC)

File Views Tools Help

Design Setup Execute

Execute

- Execution Plans
- Current Run
- Run History
- Scheduler

Execution Plans | Current Run | Run History | Scheduler

Save Undo Query Refresh Restart Abort Auto Refresh ? 1 of 1



Execution Plan Name	Process ID	Total Number of Tasks	Number of Successful Tasks	Number of Failed Tasks	Number of Tasks Still in Queue	Run S
OR12 ETL Test Run 1	20729951	629	613	16		0 Failed

Edit Description Tasks Task Details Audit Trail (RO) Phase Summary (RO) Run Type Summary (RO)

Save Undo Query Refresh Details Failed 0 of 2

Depth	Name	Mode	Group	Task Status	Start Timestamp	End Timestamp	Duration
82	SIL_PurchaseCostFact	Source : FULL T...		Failed	6/3/09 10:53:17 PM	6/3/09 10:53:17 ...	0 sec
84	SIL_GLOtherFact	Source : FULL T...		Failed	6/3/09 10:53:17 PM	6/3/09 10:53:17 ...	0 sec

Login ...

Provide the login information:

Connection

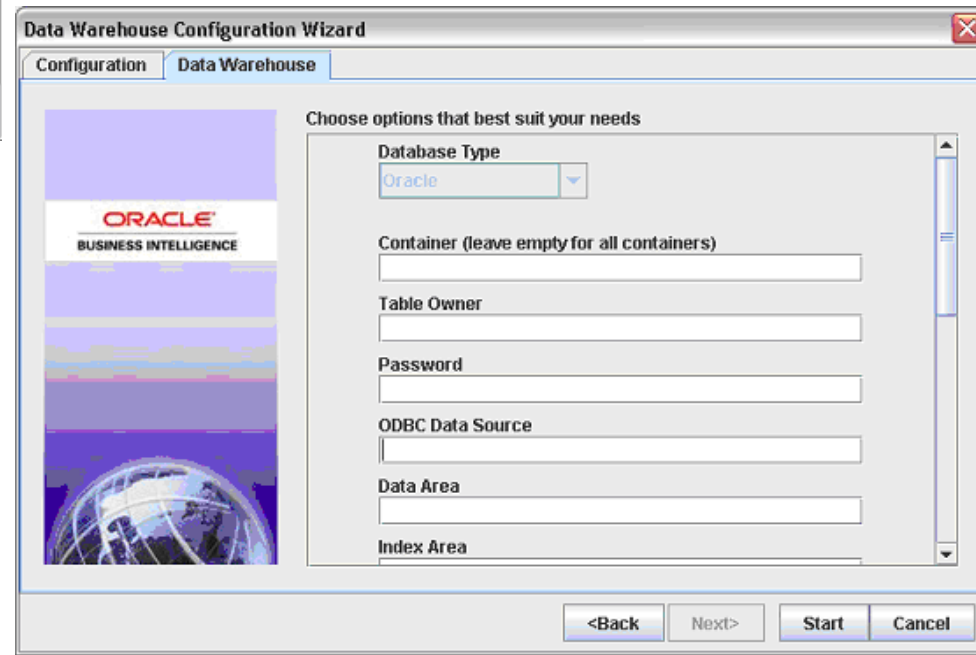
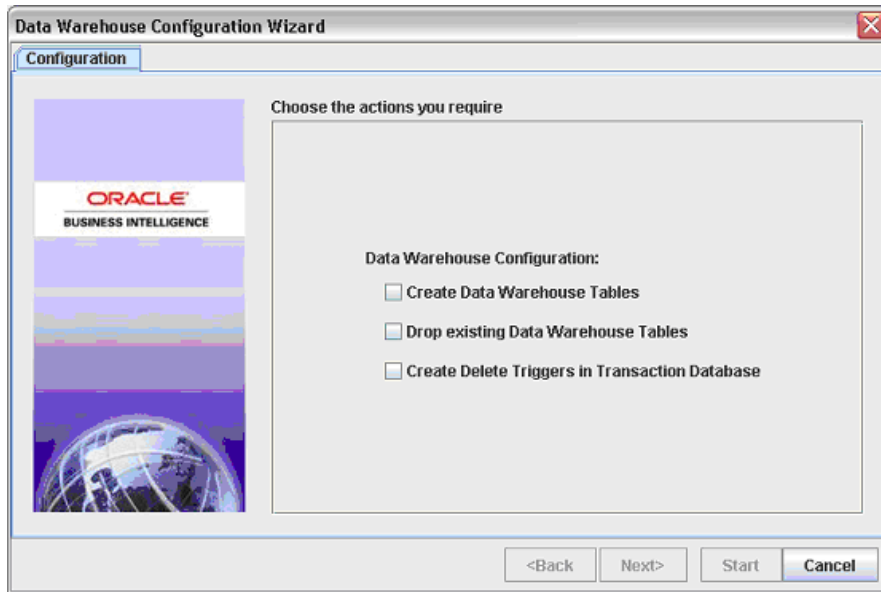
User name

Password

Login Configure Options Cancel ?

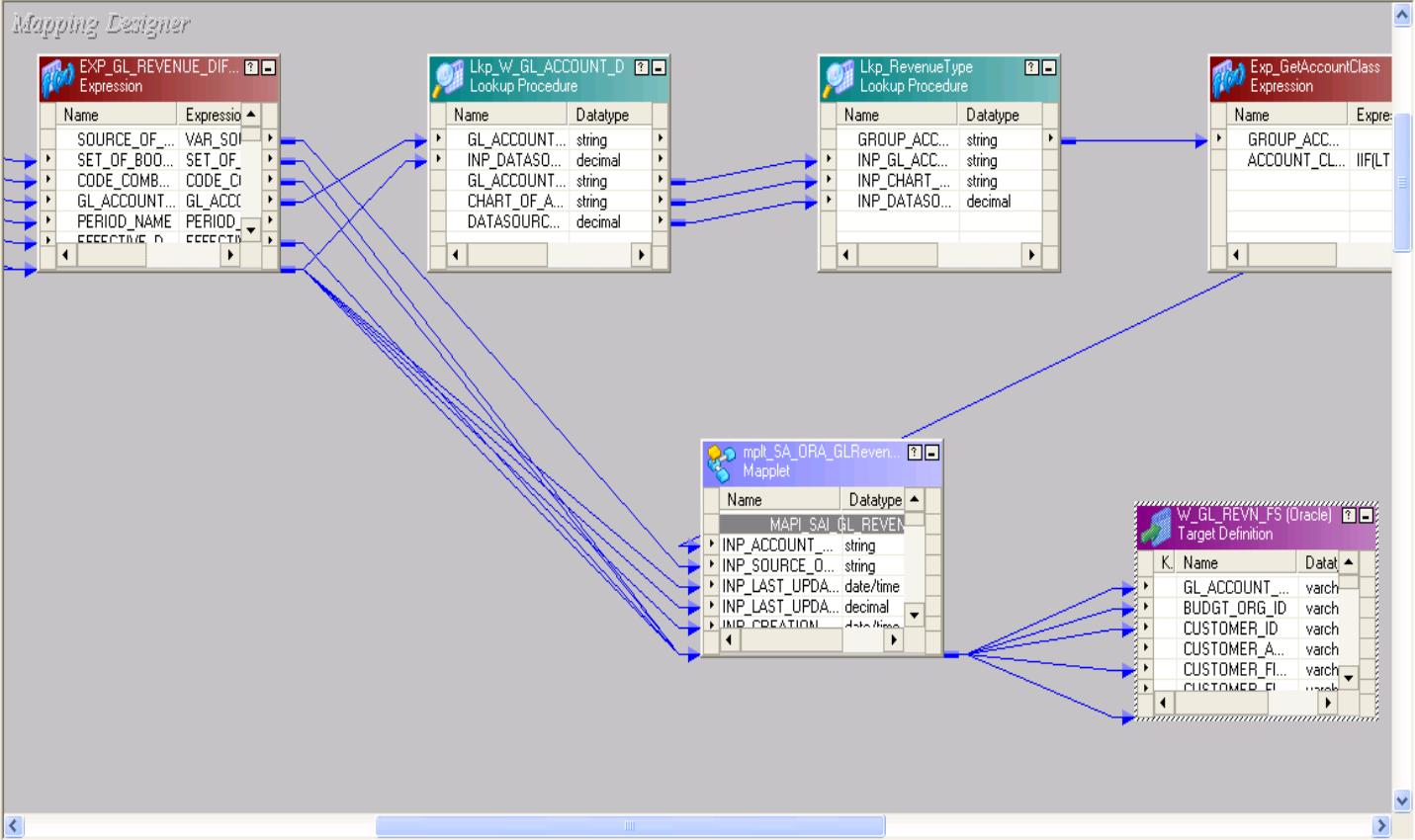
(Online) Or... Windows T... Informatica... Data Ware... Informatica... Services

Creating the Data Warehouse Tables



Repository Navigator

- Repositories
 - INFARepSvc
 - PLP
 - SDE_IDEE1_811SP1_812_Adaptor
 - SDE_IDEE1_90_Adaptor
 - SDE_ORA11510_Adaptor
 - SDE_ORAR12_Adaptor**
 - Business Components
 - Sources
 - Targets
 - Cubes
 - Dimensions
 - Transformations
 - Mapplets
 - Mappings
 - User-Defined Functions
 - SDE_PSFT_89_Adaptor
 - SDE_PSFT_90_Adaptor
 - SDE_SBL_80_Adaptor
 - SDE_SBL_811_Adaptor
 - SDE_SBL_Vert_80_Adaptor
 - SDE_SBL_Vert_811_Adaptor
 - SDE_Universal_Adaptor
 - SILOS
 - SIL_Vert
 - UA_SDE
 - UA_SIL



Output Window

```

Parsing mapplet mplt_BC_ORA_GLXactsJournalsExtract...
...parsing completed with no errors.

***** Mapplet mplt_BC_ORA_GLXactsJournalsExtract is VALID *****
mapplet mplt_BC_ORA_GLXactsJournalsExtract updated.
    
```

Save Fetch Log Generate Validate Debugger Session Log Notifications

Informatica PowerCenter – Administration Screens

The screenshot displays the Informatica PowerCenter Administration Console interface. The browser address bar shows the URL `https://jac22819:8443/adminconsole/Console.do`. The page header includes the Informatica logo, the title "Administration Console", and a user greeting "Welcome, Administrator" with a "Sign Off" link. The "Configuration" section is active, with sub-tabs for "Domain", "Logs", "Permissions", and "Reports". The "Domain" tab is selected, showing a tree view of the domain `d_jac22819` with sub-items: `n1_jac22819`, `INFAIntSrvc`, `INFARepSrvc`, and `License_jac22819_9567`. The right-hand pane displays "Details for domain: d_jac22819" with a "Shutdown" button. Below this, there are tabs for "Overview", "Properties", "Resources", "Permissions", and "Log Management". The "Overview" tab is active, showing the last update time as "Thu Jun 4 10:10:18 2009" and a table of services:

Service Name	Status
n1_jac22819	
INFAIntSrvc	✓ P
INFARepSrvc	✓ P

Informatica Administration Console

The screenshot displays the Informatica Administration Console interface. At the top, the Informatica logo is on the left, and the title "Administration Console" is in the center. On the right, a user is logged in as "Administrator" with a "Sign Off" link. Below the header, there are navigation tabs for "Domain", "Logs", "Permissions", and "Reports". The main content area is divided into a left sidebar and a right main panel. The sidebar shows a tree view of the configuration hierarchy: "d_jac22819" (domain) contains "n1_jac22819" (node), which contains "INFAIntSvc" (service), "INFARepSvc" (service), and "License_jac22819_9567" (license). The "INFAIntSvc" service is selected and highlighted. The main panel shows the status of the selected service: "The Integration Service INFAIntSvc is enabled and running in Normal mode." A "Disable" button is visible. Below this, a green checkmark indicates "The service is running." and the node name "n1_jac22819" is shown. There are tabs for "Properties", "Associated Repository", "Processes", "Permissions", and "Logs". The "Properties" tab is active, showing sections for "Grid/Node Assignments" and "General Properties".

INFORMATICA Administration Console Welcome, Administrator
Sign Off

Configuration

Domain Logs Permissions Reports

Create ▼

- d_jac22819
 - n1_jac22819
 - INFAIntSvc**
 - INFARepSvc
 - License_jac22819_9567

The Integration Service **INFAIntSvc** is enabled and running in Normal mode. **Disable**

The service is running.

n1_jac22819

Properties Associated Repository Processes Permissions Logs

Grid/Node Assignments

Node: **n1_jac22819** Codepage: MS Windows Latin 1 (ANSI), superset of Latin1
Backup Nodes: None

General Properties

DataMovementMode: ASCII
\$PMSuccessEmailUser:
\$PMFailureEmailUser:
\$PMSessionLogCount: 0
\$PMWorkflowLogCount: 0
\$PMSessionErrorThreshold: 0
License: **License_jac22819_9567**

Advanced Properties

Data Model Documentation – e.g. W_EMPLOYEE_D

Table 2–2 Table Types Used by the Oracle Business Analytics Warehouse

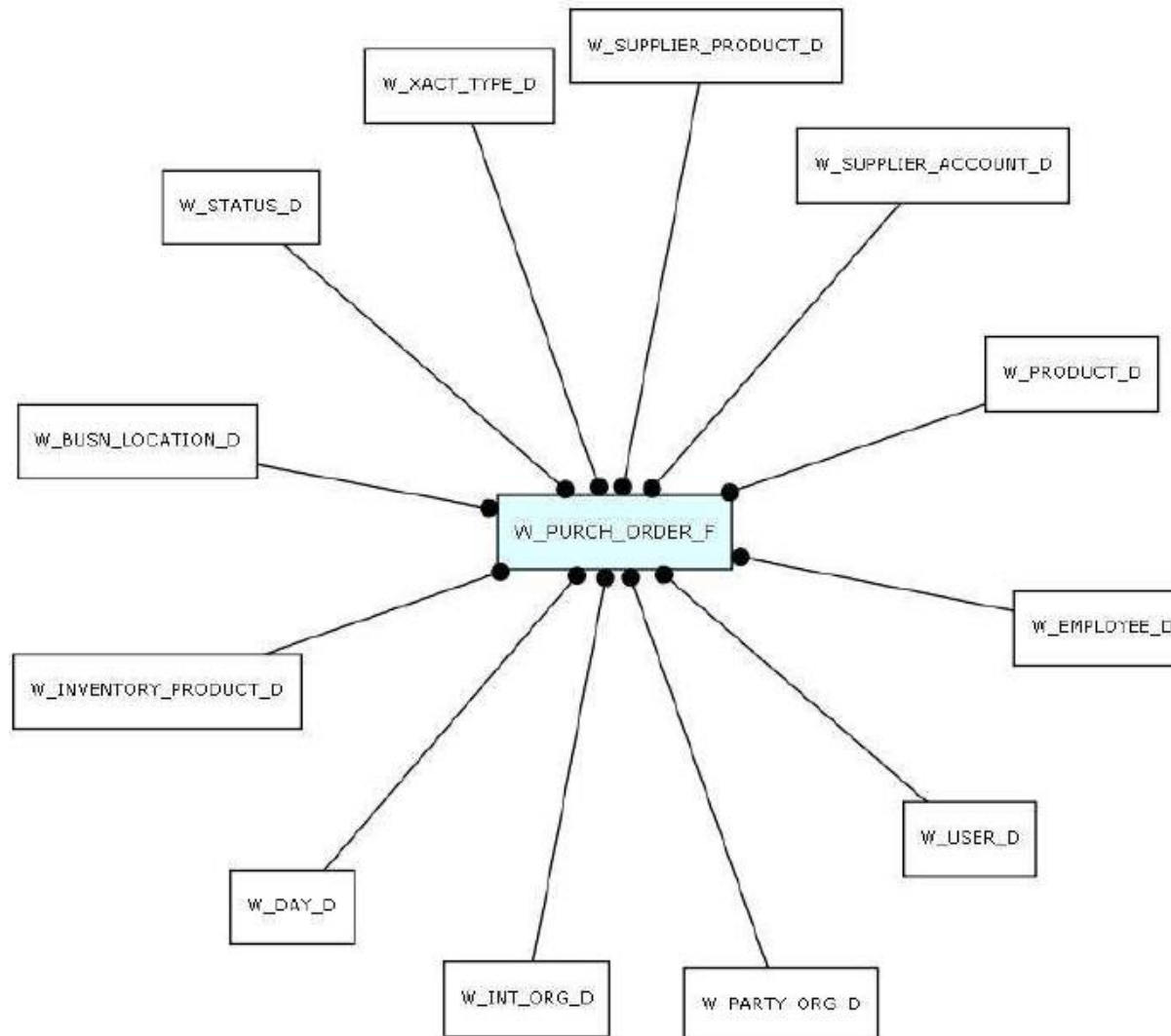
Table Type	Description
Aggregate tables (_A)	Contain summed (aggregated) data.
Dimension tables (_D)	Star analysis dimensions.
Staging tables for Dimension (_DS)	Tables used to hold dimension information that have not been through the final ETL transformations.
Staging tables for Usage Accelerator (WS_)	Tables containing the necessary columns for the ETL transformations.
Dimension Hierarchy tables (_DH)	Tables that store the dimension's hierarchical structure.
Dimension Helper tables (_DHL)	Tables that store M:M relationships between two joining dimension tables.
Staging tables for Dimension Helper (_DHLS)	Staging tables for storing M:M relationships between two joining dimension tables.
Fact tables (_F)	Contain the metrics being analyzed by dimensions.
Fact Staging tables (_FS)	Staging tables used to hold the metrics being analyzed by dimensions that have not been through the final ETL transformations.

Column Name Convention

Table 2–6 Standard Column Suffixes

Suffix	Description	In Table Types
_CD	Code field.	_D, _DS, _FS, _G, _GS
_DT	Date field.	_D, _DS, _FS, _G, _DHL, _DHLS
_I	Language Independent Code. In the transactional database, list of value (LOV) information is stored with both language-independent and display values. A Language Independent Code column references the language-independent LOV, which may be different from the displayed value in both the transactional system and the data warehouse.	_D, _MD
_ID	_ID columns are used in _FS tables. They correspond to the _WID columns of the corresponding _F table.	_FS
_FLG	Indicator or Flag.	_D, _DHL, _DS, _FS, _F, _G, _DHLS
_WID	Identifier generated by Oracle BI linking dimension and fact tables, except for ROW_WID.	_F, _A, _DHL
_NAME	Name corresponding to the code column (columns ending with _CODE)	_D, _F, _A
_DESC	Long Description corresponding to the code column (columns ending with _CODE)	_D, _F, _A

Star Data Model



Data Dictionary

W_PURCH_ORDER_F

Business Name: Purchase Order

Description:

W_PURCH_ORDER_F fact table is used to capture all the purchase orders that are raised on suppliers by the purchasing unit of a business organization (purchasing organization). The types of purchase orders can be many and would typically include one-time, regular, blanket, release etc. The data in this table is stored at the purchase order product line item level. The purchase order lines in this table are in turn referenced by fact rows in the W_PURCH_RCPT_F table. The data in this table is expected to be dynamic in nature during the lifecycle of a specific purchase order and its receipt related cycles. Columns like RECEIVED_QTY, ACCEPTED_QTY and STATUS_WID represent the current status/information related to a purchase order line item.

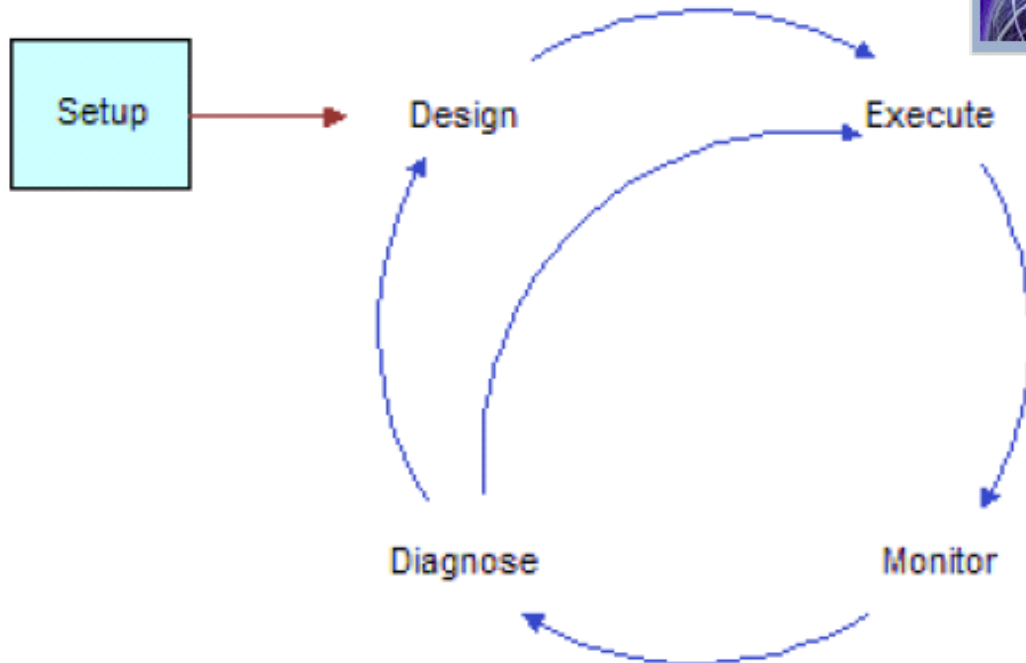
Table Columns:

Column Name	Description	Datatype	Lookup Table
SUPPLIER_WID Supplier Surrogate Key	This indicates the supplier on whom the purchase order has been placed. The link to the W_SUPPLIER_D dimension. Lookup: W_SUPPLIER_D Example : Circuit City, Good Guys etc. for any electronic equipment	NUMBER(10)	W_PARTY_ORG_D
PRODUCT_WID Product Surrogate Key	This indicates the product which is being sourced from the supplier on the purchase order line item. Lookup: W_PRODUCT_D Example :Spray paint, auto exhaust pump, IBM laptop T-Series 230	NUMBER(10)	W_PRODUCT_D
INVENTORY_PROD_WID Inventory Product Surrogate Key	This indicates the business location -- product combination against which the purchase order item will be received.	NUMBER(10)	W_INVENTORY_PRODUCT_D

DAC LifeCycle



DAC Process Life Cycle



- Design
 - Subject Areas
 - All Subject Areas
 - CRM - Forecasting
 - CRM - Marketing
 - CRM - Sales
 - CRM - Service
 - Exception Reports Sub
 - Upgrade 7.7 DW to 7.8
 - Usage Accelerator Sub
 - WAVE (for internal testi
 - Tables
 - Indices
 - Task Groups
 - Tasks
 - Configuration Tags
 - Source System Parameter
 - Source System Folders

Configuration Tags		Source System Parameters		Source System Folders	
Subject Areas		Tables		Indices	
Task Groups		Tasks			
New Reference Save Undo Delete Query Refresh Assemble		All		1 of 9	
Name	Configuration Tag Tasks Only	Last Designed	Inactive	Owner	
All Subject Areas	<input type="checkbox"/>	12/8/06 3:06:43 PM	<input type="checkbox"/>	Siebel 7.8	
CRM - Forecasting	<input type="checkbox"/>	2/11/07 7:26:56 PM	<input type="checkbox"/>	copySiebel78	
CRM - Marketing	<input type="checkbox"/>	12/8/06 3:06:43 PM	<input type="checkbox"/>	Siebel 7.8	
CRM - Sales	<input type="checkbox"/>	12/8/06 3:06:43 PM	<input type="checkbox"/>	Siebel 7.8	
CRM - Service	<input type="checkbox"/>	12/8/06 3:06:44 PM	<input type="checkbox"/>	Siebel 7.8	
Exception Reports Subject Area	<input type="checkbox"/>	12/8/06 3:06:44 PM	<input type="checkbox"/>	Siebel 7.8	
Upgrade 7.7 DW to 7.8 DW	<input type="checkbox"/>	12/8/06 3:06:44 PM	<input type="checkbox"/>	Siebel 7.8	
Usage Accelerator Subject Ar...	<input type="checkbox"/>	12/8/06 3:06:44 PM	<input type="checkbox"/>	Siebel 7.8	
WAVE (for internal testing)	<input type="checkbox"/>	12/8/06 3:06:44 PM	<input type="checkbox"/>	Siebel 7.8	

Edit Description Tasks Tables Configuration Tags

*Name:

Configuration Tag Tasks Only Inactive

Save

Undo

DAC Execution Plans

Execution Plans

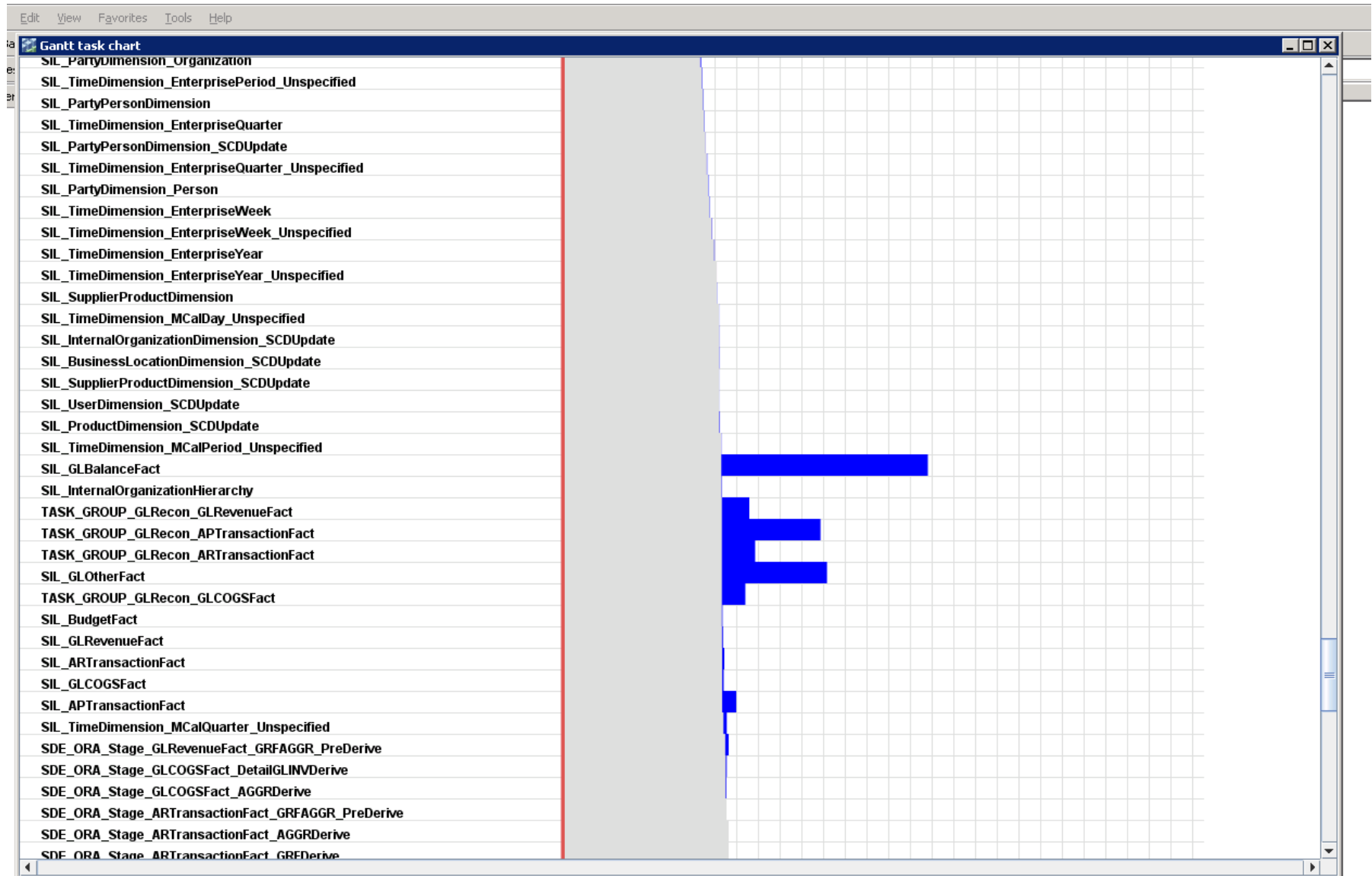
An execution plan is a unit of work that enables you to organize, schedule, and execute ETL processes. An execution plan comprises the following objects: subject areas, ordered tasks, indexes, tags, parameters, source system folders, and phases.

DAC supports single-source and multi-source execution plans, which are described in the following sections:

- [About Single-Source Execution Plans](#)
- [About Multi-Source Execution Plans](#)

- Single Source and multi-source scenarios

Monitoring / Tuning the ETL



Full ETL / Incremental ETL

- Full ETL and Reset DW
- Why full and incremental may take comparable time?
- Analogy of stack of books
- Real-time, how real?



Micro-ETL (Near Real-Time)

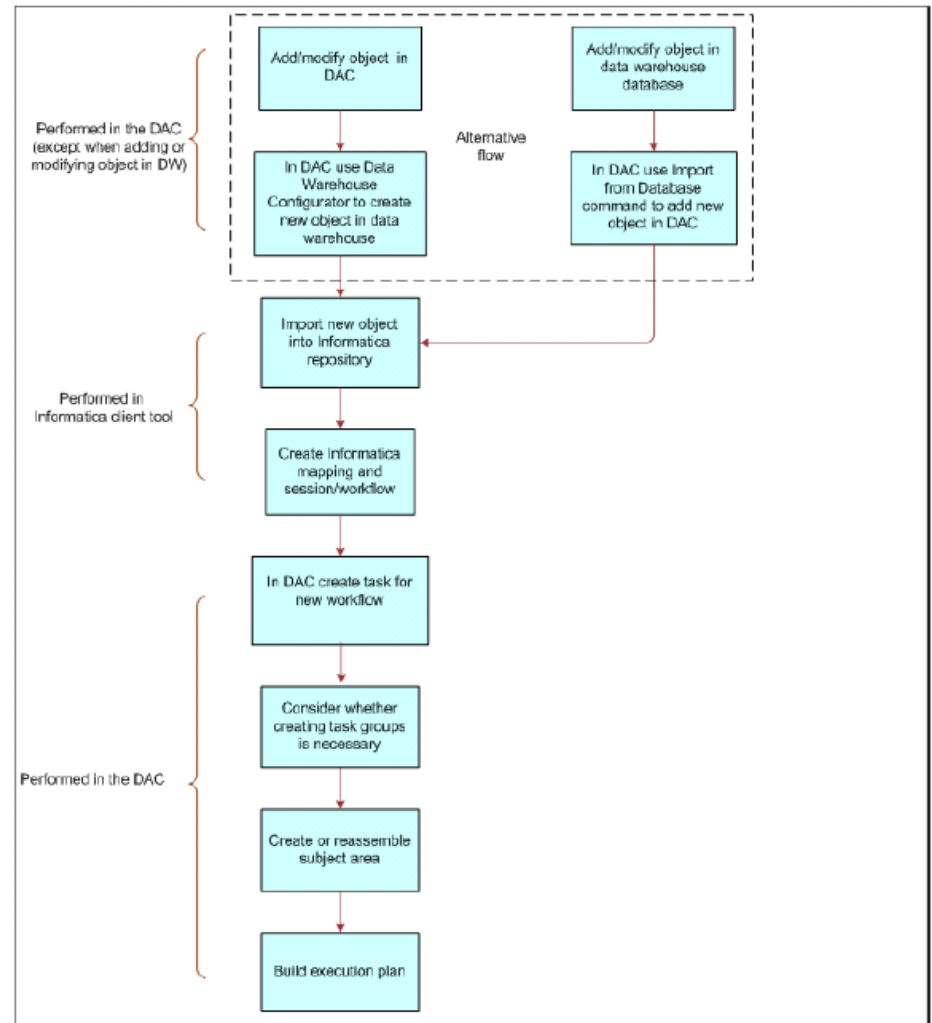
- Micro ETL execution plans are frequent ETL processes scheduled such as hourly or half-hourly
- Usually handle small subject areas or subsets of larger subject areas.
- DAC tracks refresh dates for tables in micro ETL execution plans separately from other execution plans and uses these refresh dates in the change capture process
- After a micro ETL execution plan runs, DAC populates refresh date values in the Refresh Dates child tab of the Execution Plans tab.
- DAC automatically detects the last refresh date for the tables common to both execution plans and intelligently extracts only the most recent records for the micro ETL execution plan.

Micro ETL Pitfalls

- For related star schemas, if one schema is omitted from a micro ETL, the cross-star reports may be inaccurate. E.g. if the Person fact table is refreshed more frequently than Revenue fact table, report spanning Person and Revenue star schemas may produce inconsistent results.
- If you omit dimension tables from a micro ETL, FK's keys for fact tables will point to Unspecified rows for the new dim records. FK references will be resolved when the Complete ETL execution plan is run.
- If you do not include aggregate tables in micro ETL, reports that use data from these tables will be inconsistent with the detailed fact tables. However, if aggregate tables are included in the micro ETL , the aggregate calcs are performed taking longer time.

Process Flow for New OBAW Objects

- Add in OBAW
- Import in Infa
- Configure DAC



Index and Analyze Table Syntaxes

- **Customsql.xml** file is located in the ..\BIFOUNDATION\DAC\CustomSQLs directory. **To edit the Analyze Table syntax**

- 1. Open the customsql.xml file, locate the Analyze Table syntax for DB type.

```
<SqlQuery name = "ORACLE_ANALYZE_TABLE" STORED_PROCEDURE = "TRUE">
```

```
DBMS_STATS.GATHER_TABLE_STATS(ownname =>  
    '@TABLEOWNER', tabname => '%1', estimate_percent => 30,  
    method_opt => 'FOR ALL COLUMNS SIZE AUTO', cascade => true )
```

```
</SqlQuery>
```

- 2. Edit the syntax. E.g., to gather statistics for only the indexed columns:

```
<SqlQuery name = "ORACLE_ANALYZE_TABLE" STORED_PROCEDURE = "TRUE">
```

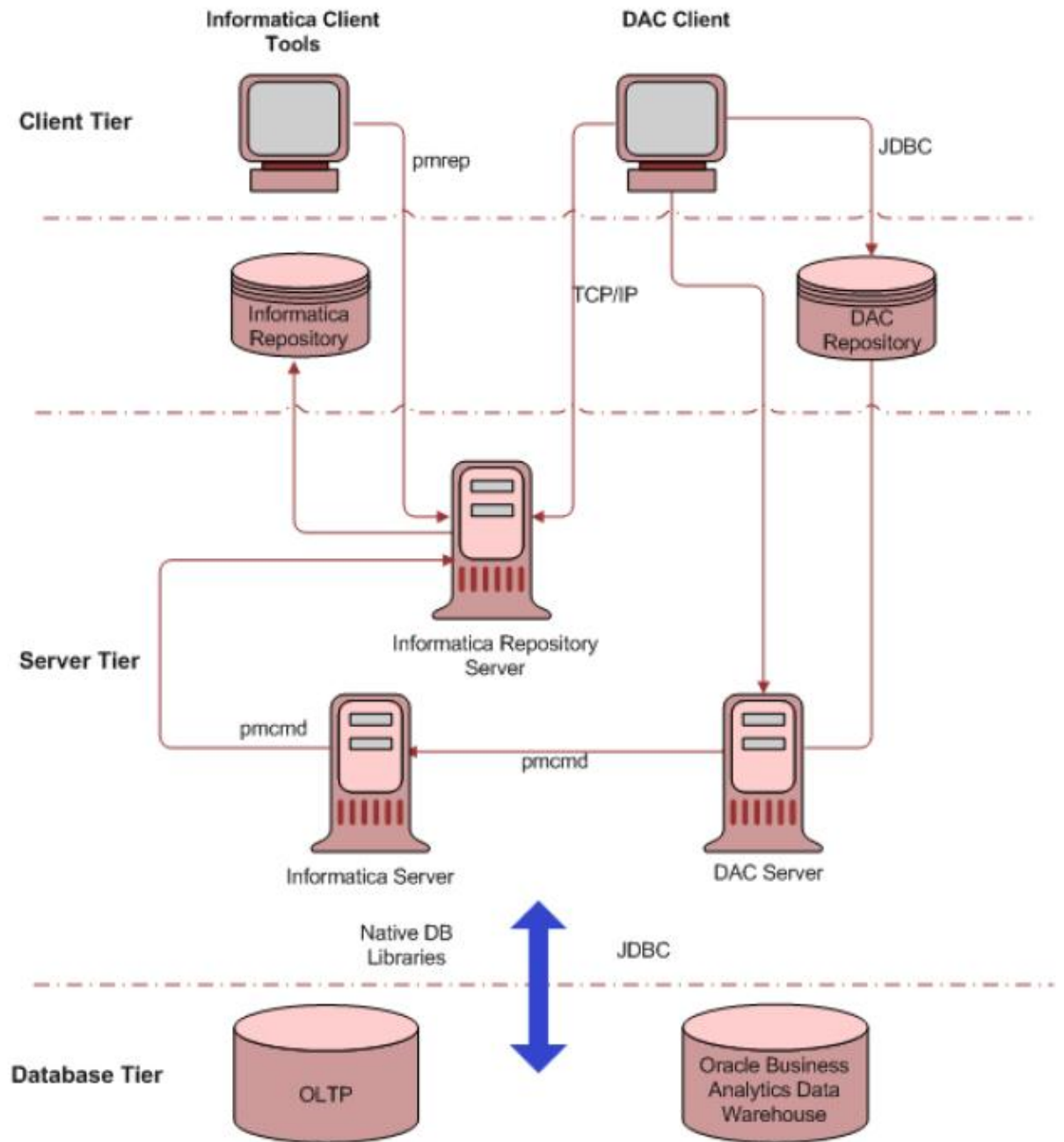
```
DBMS_STATS.GATHER_TABLE_STATS(ownname =>  
    '@TABLEOWNER', tabname => '%1', estimate_percent => 10,  
    method_opt => 'FOR ALL INDEXED COLUMNS', cascade => true )
```

```
</SqlQuery>
```

OBIA List of Docs

- Main Page for Documents
(http://www.oracle.com/technology/documentation/bi_ee.html)
- OBIA install guide (**E14217-01**)
- OBIA Config guide (**E14216-01**)
- DMR 7.9.6
- Data Lineage 7.9.6
- Business Definitions of Metrics
- Sample Reports – Product Guides

Trouble Shooting



7.9.6 Issues

- Unzip of Informatica 8.6 hotfix is asking for password – (do not use Windows uncompress)
- BUG 8557986: DAC SETUP INFORMATICA SERVERS SCREEN IS NOT UPDATED FOR OBIA 7.9.6 GUIDE

Oracle Support - May 22, 2009 11:41:42 AM GMT-04:00

Hello Shyam,

Thank you for contacting Oracle Support. Your service request has been assigned to me.

In previous cases we found that the "password protected" message only appears when extracting with Extraction Wizard. Please use Winzip or Winrar program to extract the files. I also found that the extraction may give an error for some file due to a path too long. To avoid this error please change the names of the folders to something shorter.

I hope this information helps.

Regards,
Maria Pia Soto

...Issues

- Need for PARAM_OLTP_ORA11I in EBS R12 Source

Oracle Support - June 3, 2009 7:17:14 PM GMT-04:00

Following is summary of call with Shyam:

After log of debugging we finally narrowed it down to following defect -

Bug 8314065: REG: EBS11.5.10: SDE_ORA_ARTRANSACTIONFACT_ARSCHEDULE_DERIVE TASK FAILS

The woraround is to manually add PARAM_OLTP_ORA11I connection in Workflow and after that the tasks completed fine.

regards,
-Rajesh.

BOM related

- Bill Of Material Related, missing join in the RPD
- Another one EBS side table _DS not truncated every night

The screenshot shows the Oracle My Oracle Support interface. At the top, there is a navigation bar with links for Dashboard, Knowledge, Service Requests, Patches & Updates, and More.. Below this, a service request titled "SR 3-941329907: BOM explosion showing empty fields" is displayed with an "Actions" button. The main content area is titled "Description" and contains the following text:

Product Siebel Financial Analytics

Last Update (4+ weeks ago) KNOWLEDGE CONTENT
=====

Knowledge content was created in metalink3:

Quantity Per Assembly in BOM Header table request is incorrect due to INVENTORY_ORG_ID (Doc ID 869528.1)

Edit your Service Request

Below the main content, there is a highlighted box containing the following text:

Oracle Support - August 12, 2009 2:07:19 PM GMT-04:00

KNOWLEDGE CONTENT
=====

Knowledge content was created in metalink3:

W_BOM_HEADER_DS is not getting truncated - BOM index failing (Doc ID 873047.1)

Importance of Metalink3 – Oops Support.Oracle.com

Product Siebel Financial Analytics

Last Update (13+ weeks ago) Hi Shyam,

Per our conversation yesterday I've created a documentation bug to handle this issue and also a knowledge document in metalink3.

Now I'm going to close this service request as...

[Edit your Service Request](#)

History

Sort by **New to Old** ▼

Hi Shyam,

Per our conversation yesterday I've created a documentation bug to handle this issue and also a knowledge document in metalink3.

Now I'm going to close this service request as we discussed yesterday.

Thank you,
Luis

Oracle Support - May 28, 2009 6:47:49 PM GMT-04:00

BUG 8557986: DAC SETUP INFORMATICA SERVERS SCREEN IS NOT UPDATED FOR OBIA 7.9.6 GUIDE

Q&A

- Questions => Follow up via:
<http://oraclebiwasig.blogspot.com/>
- Contact Info
Shyam Varan Nath
ShyamVaran@Gmail.com
(954) 609 2402

OBIEE 11g Features

- OBIEE 11g is expected in next year
- Support for unbalanced/ragged hierarchy
- Better integration with Essbase
- Cross subject area reporting
- OBI Apps for HFM and so on...
- More details here

<http://www.rittmanmead.com/2008/09/26/oracle-open-world-day-4-obiee-action-framework-and-obiee-performance-tuning/>

...OBIEE 11g

- “...new addition to the web catalog in 11g, “conditions”, which are defined against data items and can be used by actions and other processes to run checks like “is the customer profitable”, “do they have a checking account” and so on, I used a variation on this when doing my BI and SOA articles and it’s a similar idea to the conditions that you can define in the Discoverer EUL.”