









OBIEE Security Case Study
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Sigma Designs



Media Processor and Connected Home Solutions for Consumer Electronics Products

- Industry-leading media processors
- VXP® video processing solutions
- Connected Home solutions: UWB and Z-Wave
- 250+ employees, headquarters in Silicon Valley

Five high-growth markets



Blu-ray players



Portable media players



HDTVs



Digital media adapters

About OAC Services (OACS)



Oracle E-Business Applications & Technology

Delivering quality results for over 12 years to 125+ customers

Oracle CRM On Demand Application

Multiple Implementation since 2006 including integration

Certified Oracle Partner

- Certified Champions: CRM On Demand, Financials, Order Management, Procurement, HR, DBA's, On Demand, Supply Chain Management, Incentive Compensation, OBIEE
- Certified Oracle Accelerator program participant

Consulting Staff

- Business consultants with latest functional application knowledge from the real world!
- Technical consultants software developers, DBA's, technical architects, integration experts

Regional Area

- Silicon Valley / Northern California
- Offices in Campbell, Local Consulting Team

Industry Expertise

High Technology, Semiconductor, Software, Medical Device, and Consumer Goods

Approach

- Typically vanilla leverage Oracle functionality
- Client Ownership, Knowledge Transfer, Sustainability
- Project success is key to long-term references & relationships

Why OACS?



Local Project Resources

- No additional project expenses for travel, other than mileage (15-18% savings)
- Team members available locally, even after the project
- No weekend travel

Expected Results

- Very clear scope included in Statement of Work
 - Unforeseen business changes not included

Management Escalations

Executive team is local - possible escalations will be addressed immediately and in person

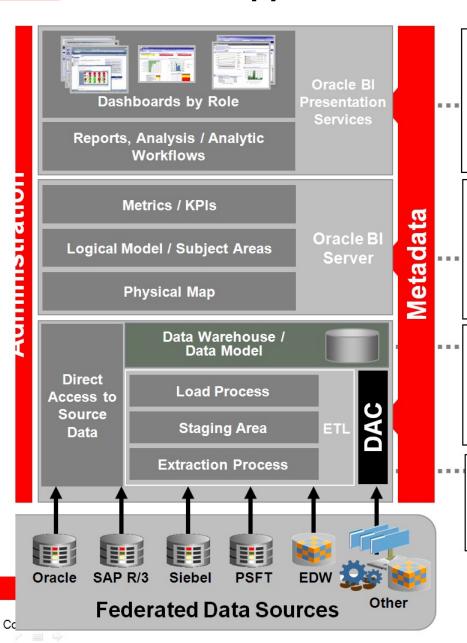
OACS Own Staff

 OACS has utilized the same core team for over 12 years. Team has implemented 125+ projects for customers – OACS does not just hire individuals for a project, we provide a proven team!

Business process knowledge

OACS has substantial business process knowledge

Oracle BI Applications Architecture



- Role Based Dashboards
- Analytic Workflow
- Guided Navigation
- Security / Visibility
- Alerts & Proactive Delivery
- Logical to Physical Abstraction Layer
- Calculations and Metrics Definition
- Visibility & Personalization
- Dynamic SQL Generation
- Abstracted Data Model
- Conformed Dimensions
- Heterogeneous Database support
- Database specific indexing
- Highly Parallel
- Multistage and Customizable
- Deployment Modularity



Sigma IT Background

- Oracle Applications R12.0.4
 - Implemented 7/1/08
- Oracle BI Applications 7.9.5.1
 - Multiple Business Units
 - Multi-national
- Small IT staff
- Stringent Audit / SOx requirements.



Sigma BI Security Requirements

- Restrict access to BI data same as EBS security
- Single Sign-on
 - Shared username/password with EBS
- Security at OBIEE Presentation Layer level:
 - Dashboards, Subject Areas, Shared Requests
- Security at the Data Level, as in EBS:
 - Per Ledgers, Operating Units, Inventory orgs, etc.





Other requirements

- Single point of security administration
 - Use EBS users/responsibilities setups
 - Minimize administration overhead
- Single point of access to BI dashboard per user





Key Solution Strategy: Match Responsibilities

- Match (exact character match):
 - EBS Responsibilities Name
 - Catalog Group Name
 - Repository Group Name
- Presentation Catalog (PC) and Repository security based on Groups only
 - PC and Repository users not used.
 - Users defined only in EBS.





Sigma OBIEE Security Solution

- Leverage seeded Oracle BI Apps security
- Integrated Logon
 - User logs into EBS, EBS transfers user to OBIEE
- Integrated "Authentication"
 - Authenticates USER from EBS
- Integrated "Authorization"
 - Fetches active responsibilities as GROUPS
 - Match EBS responsibilities to:
 - Presentation Catalog Groups
 - Repository Groups



Presentation Catalog (PC) Security

- Controls access to dashboards, pages, reports and features such as Answers and Delivers
- Sigma Solution:
 - Presentation Catalog Groups match EBS responsibility names (exact character match)
 - User's session PC Groups set by EBS query of user's responsibilities
 - Assigned Permission to PC objects using groups.





Repository Security

- Controls Access to Data
- Sigma Solution:
 - Defined Repository Groups as EBS Responsibilities
 - Set permissions on each Subject Area for broad access control
 - Used Security Manager Groups for data stripes
 - Created Security Manager Groups for each logical striping entity.
 - Assign filters to each group on logical tables
 - Assign Repository Groups to Security Groups.





Security Execution

- User logs into EBS.
 - EBS Authenticates
 - Sets cookie
- User accesses OBIEE
 - Selects OBIEE responsibility in EBS
 - EBS launches OBIEE
 - Fetch cookie, use to authenticate
 - Read EBS for user, responsibilities, etc.





Solution Setup Steps

- 1. Define EBS setups for BI access:
 - Responsibility, Profile, Function, Menu
- 2. Create map of EBS Responsibilities to BI Objects
- 3. Create Presentation Catalog Groups to match EBS Resp.
- 4. Set security on Presentation Catalog objects
- 5. Create Repository Security Groups to match EBS Resp.
- 6. Set security on Repository objects
- 7. Define Security Groups for data striping.
- 8. Setup Session Variables, Init Blocks, Connect Scripts





Sigma User's Experience

- Users have single login URL, username, and password
- Users only see dashboards, pages and reports that they have been authorized to see
- Users see common reports but with different data slices, based on EBS access/security





EBS Logon Page





EBS Home Page

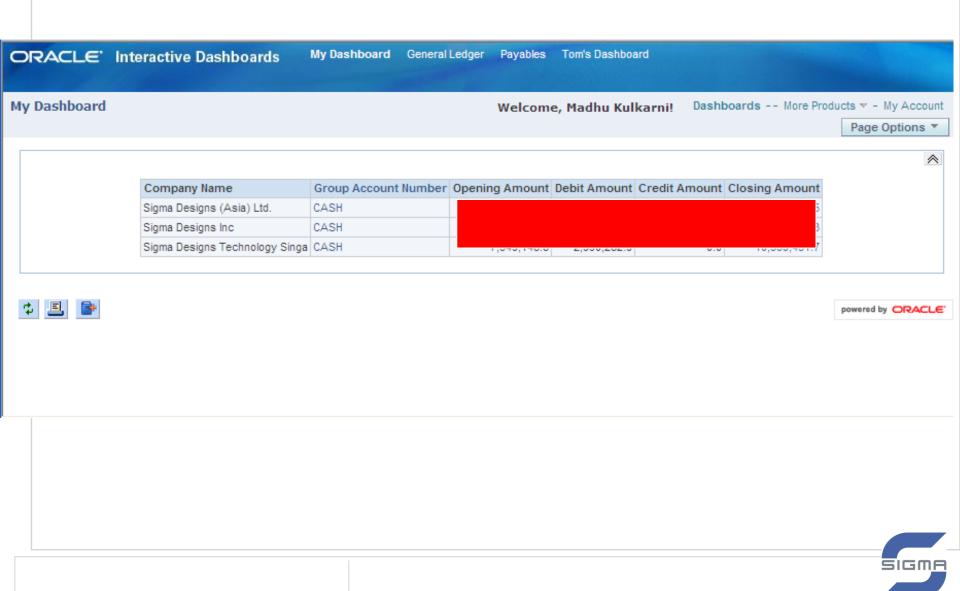


Privacy Statement





OBIEE Default Dashboard





Authorization

My Account - Windows Internet Exp

My Account

Make changes to your account information.

General

Display Name | Madhu Kulkarni

User ID

MKULKARNI

Group Membership

This list shows the groups to which you belong.

Authenticated Users

GL Manager - HK

GL Manager - SG

GL Manager - US

Inventory

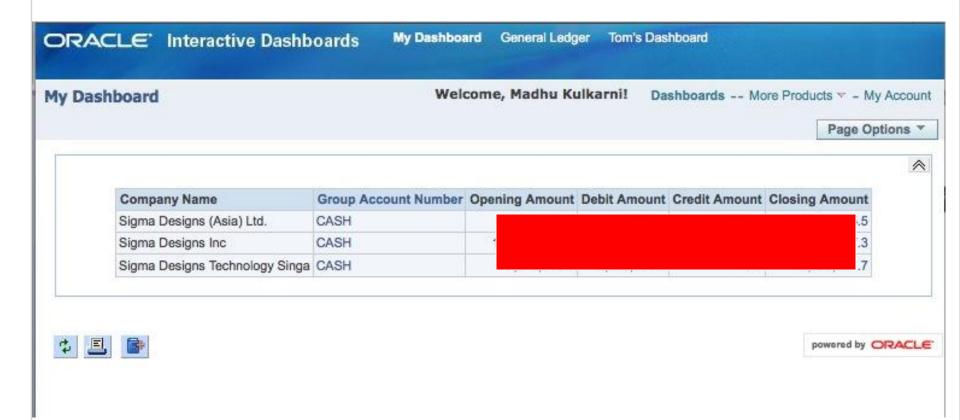
Payables Manager - US

Join Catalog Group (password required)





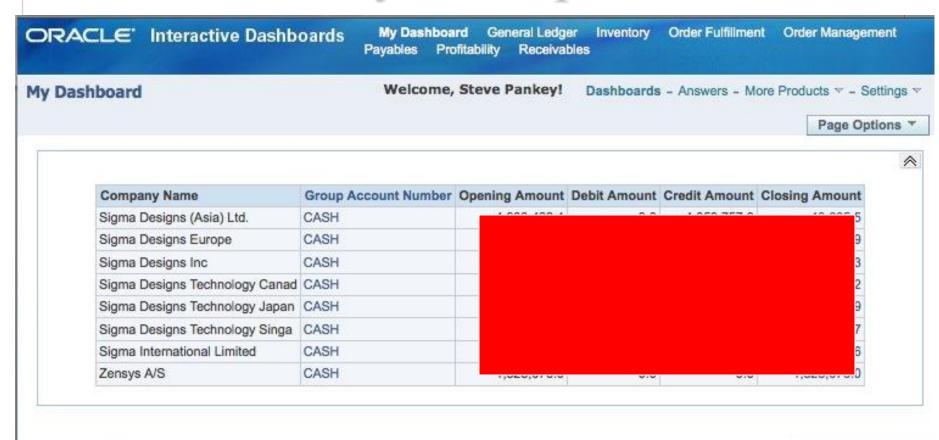
Security Example: Madhu







Security Example: Steve















Ongoing Security Admin Tasks:

- Ongoing:
 - Create new EBS users, assign Responsibilities
 - Add/Change/Remove EBS Responsibilities for existing users
- Periodic:
 - When new Responsibilities added to EBS:
 - Repeat initial setup steps for:
 - □ Presentation Catalog Groups
 - □ Repository Groups
- Major OBIEE enhancements:
 - New Subject Areas, Dashboards, etc.
 - Repeat initial implementation steps





Questions?







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