

# COLLABORATE 12

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY



# **OBIEE & Essbase**



# The Truth about Integration

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# Agenda



- Introduction
- Audience Participation
- Current Essbase & OBIEE Integration Points
  - OBIEE querying Essbase
  - Essbase querying OBIEE (rpd)
- Known Issues
- What Customers are ACTUALLY doing
- Coming Integration!!!!
- Questions



#### Introduction



#### **Alex Ladd**

- 12 Years of Planning/Essbase Experience
- OAUG Hyperion SIG Essbase Domain Lead



Senior Partner – MindStream Analytics

#### **Contact Information**

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# **Audience Participation**



- How many of you are Essbase Users?
  - What type of Essbase Users? (Add-in, Smart View, Reports)
- How many using OBIEE?
  - o Are you here because you might start using Essbase?
- How many have both currently?



### OBIEE Querying Essbase 🚳



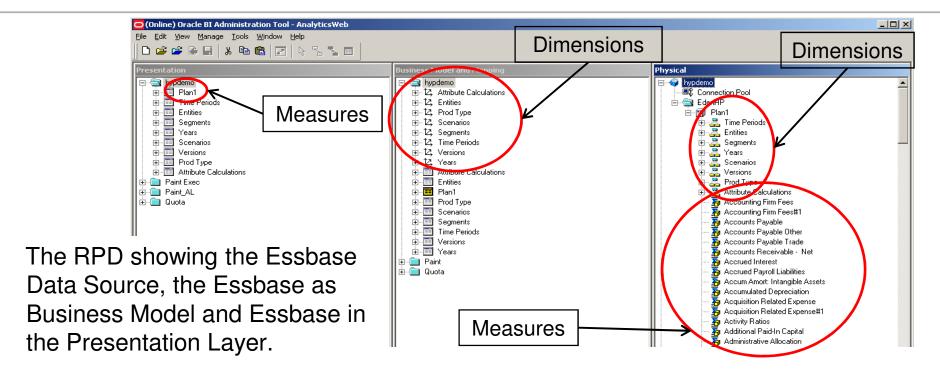
#### OBIEE as Reporting Tool - Essbase as Data Source

- Basics
  - $_{\odot}$  Can OBIEE Pull Data from Essbase and read the dimension structures? YES
  - Can the Data from Essbase be represented in OBIEE graphs and Dashboards nicely? - YES
- More Advanced
  - Can Answers Provide Web Enabled Ad Hoc Analysis with Essbase as the Data Source? — Kind Of?
    - Drill Down but not up
  - Can OBIEE provide good financial Reporting from Essbase? NO
    - OBIEE is a relational Query tool so it makes Essbase behave that way too
    - This means that Ragged Hierarchies aren't presented optimally
    - Asynchronous Rows is not supported



### Essbase in the RPD file





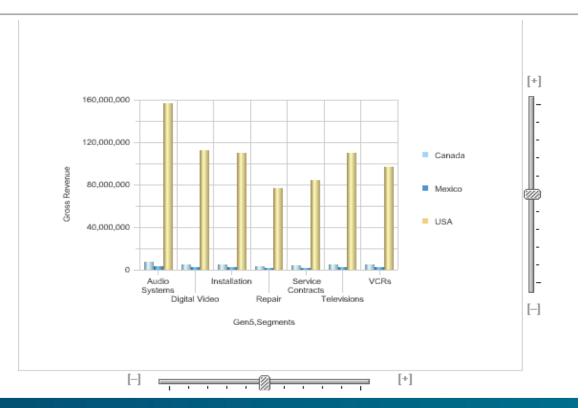


### **OBIEE Charts**



#### **OBIEE Charts with Essbase Data**

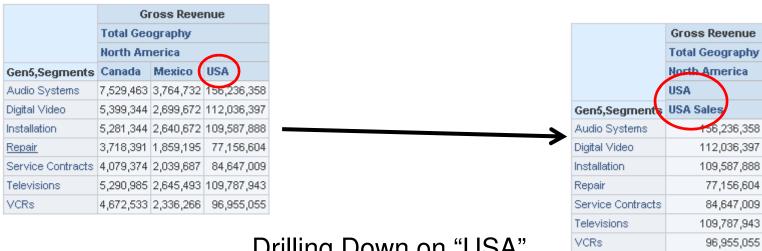
Here is a multi-bar chart created in OBIEE Answers for use in a Dashboard. The OBIEE charts are very sharp and offer a rich User Interface experience. The Essbase data flows in well.





# Drilling Down on Columns





Drilling Down on "USA"

By drilling down on the "USA" member the whole flavor of the report changes. Canada and Mexico are removed and the USA child appears. This is the way a relational tool works, think of adding parameter to the WHERE section of a SQL Statement.



# **Drilling Down on Rows**



	Gross Revenue Total Geography							
	North Am	nerica						
Gen5,Segments	Canada	Mexico	USA					
Audio Systems	7,529,463	3,764,732	156,236,358					
<u>Digital Video</u>	5,399,344	2,699,672	112,036,397					
Installation	5,281,344	2,640,672	109,587,888					
Repair	3,718,391	1,859,195	77,156,604					
Service Contracts	4,079,374	2,039,687	84,647,009					
Televisions	5,290,985	2,645,493	109,787,943					
VCRs	4,672,533	2,336,266	96,955,055					



Drilling down on "Digital Video"

Drilling down of the "Digital Video" member doesn't result in the same thing that most Essbase Users would expect. Instead we see only the children of "Digital Video" and the rest of the products no longer appear.

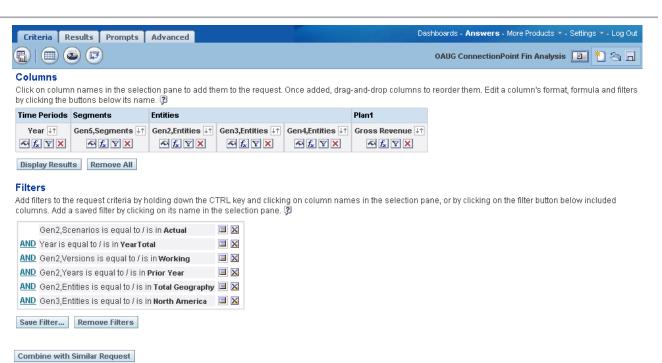


# **Undoing Drill Downs -1**



#### Prior to Drill Down

Notice Gen5, Segments only. The filters are only Scenario, Version, Periods, Year and Entities.



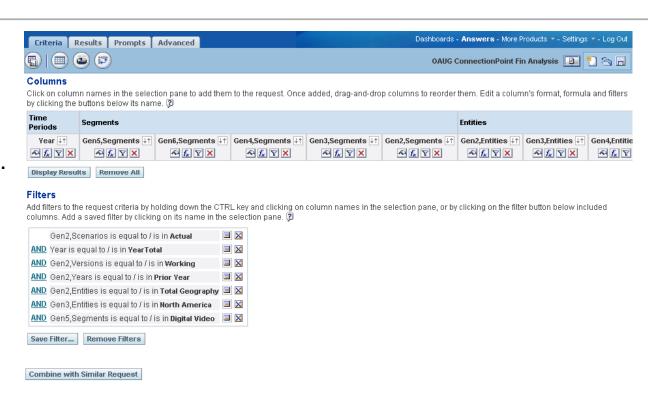


# Undoing Drill Downs -2



#### Post Drill Down

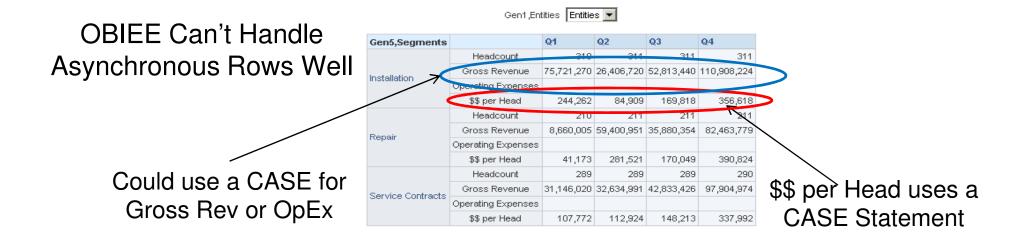
Notice all the new segment columns. The filters now have a Segments limitation. In order to drill back up we need to re-launch the original saved version or delete all of the "Criteria" additions the Drill Down added.





# Asynchronous Rows





You can make Asynchronous Rows in OBIEE but you need to use a CASE statement and that is much more time consuming that what you can achieve in Hyperion Reports.



# Financial Reporting





	Q1			Q2			Q3			Q4			
Gen5,Segments	Gross Revenue	Headcount	Revenue per Head										
Audio Systems	85,138,066	846	100,636	85,943,196	858	100,128	112,258,633	879	127,760	94,638,646	913	103,657	
Digital Video	65,216,590	908	71,824	66,425,762	914	72,649	68,298,030	917	74,507	72,637,255	923	78,697	
Installation	75,721,270	310	244,262	26,406,720	311	84,909	52,813,440	311	169,818	110,908,224	311	356,618	
Repair	8,660,005	210	41,173	59,400,951	211	281,521	35,880,354	211	170,049	82,463,779	211	390,824	
Service Contracts	31,146,020	289	107,772	32,634,991	289	112,924	42,833,426	289	148,213	97,904,974	290	337,992	
Televisions	53,153,515	595	89,334	55,694,581	600	92,773	73,099,137	603	121,226	83,541,871	604	138,391	
VCRs	61,994,136	434	142,953	58,498,139	435	134,376	58,304,652	438	133,116	57,257,869	439	130,428	

#### Not as flexible as Hyperion Reports

OBIEE is a SQL query tool and it is designed to bring back SQL grids. The grid above is nice and informative, but it's not ready to present to senior management and even putting it in BI Publisher wont get it completely ready.



# Essbase Querying OBIEE



### Essbase on top of OBIEE (rpd as data source)

- Works Like EIS
- Essbase Schema becomes somewhat inflexible
  - Certain Changes can be problematic
- All in all it works pretty well



#### Some Issues



- Lack of ability to do Asynchronous Rows
  - If you are an organization that needs Cost Center or Cost Type and Accounts in the Rows to create a Financial Statement this can be an issue
- When using RPD as a data source for Essbase Studio you can't add a new member without rebuilding the entire schema
- When using Essbase Studio your model should be mature
  - Adding levels to a dimension entails full rework



#### **Customer Stories**



#### Investment Bank

- Wanted Financial Dashboard
- Project Successful Overall
- End Result was a set of Dashboards that were highly scripted and static and launched users into Financial Reports for any type of ad hoc analysis on the web
- Lots of Scripting in OBIEE
- BI Publisher was determined not to be capable of handling needed reporting due to asynchronous row limitation

#### Mutual Fund

- Wanted OBIEE and BI Publisher
- Lots of problems with BI Publisher handling the relational data
- Changed course and decided to use OBIEE rpd as source for Essbase models
- Essbase Cubes built using Essbase Studio
- Essbase Cubes feed Financial Reports to deliver information



# What's coming

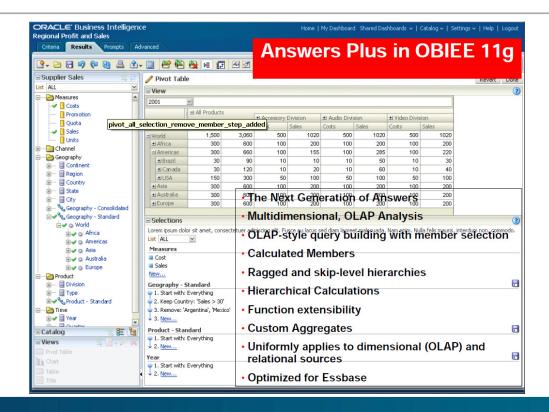


- OBIEE interface is getting major overhaul
  - Asynchronous row issue will be resolved by what Oracle is calling "Dimensional Columns"
  - OBIEE will handle Essbase more like Financial Reports does today
- "Custom Group Results"
- Grid Navigation in what Answers calls a Pivot Table will be much like the Excel Add-in



### The New Answers







### Dimensional Columns



#### **Dimensional Columns**

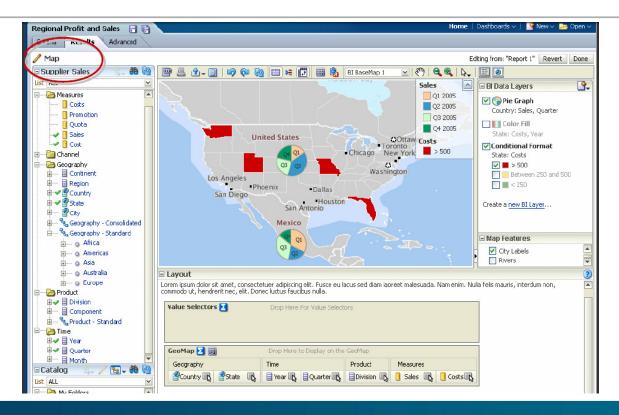
- · New column type with unique capabilities
- Achieved by dragging and dropping hierarchy from Subject Area tree on to workspace
- · Single column with expansion capabilities
- · Asymmetrical Drilling
- · "Drill Up"

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= All Products				s	± Accessory	Division	± Audio Division		± Video Division	
7										
		opsts	5	Sales	Costs	Sales	Costs	Sales	Costs	Sales
E	J World	1	1,200	2,460	400	820	400	820	400	820
		<b>\</b>	300	660	100	155	100	285	100	220
	± Argentina		30	60	10	10	10	30	10	20
	± Brazil		30	90	10	10	10	50	10	30
	±I Can ada		30	120	10	20	10	60	10	40
	±1 Colombia		30	30	10	5	10	15	10	10
	± Mexico		30	60	10	10	10	30	10	20
	±IUSA		150	300	50	100	50	100	50	100
	± Asia		300	600	100	200	100	200	100	200
	+ Australia		300	600	100	200	100	200	100	200



# Maps!!!!







### Questions?





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### Additional Info



#### For Screenshots of the new OBIEE

- Visit Debashi's OBIEE Blog at:
- <a href="http://debaatobiee.wordpress.com/2009/10/06/obiee-11g-a-gospel-about-whirlpool-in-bi-space/">http://debaatobiee.wordpress.com/2009/10/06/obiee-11g-a-gospel-about-whirlpool-in-bi-space/</a>