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WHAT EXACTLY IS ORACLE EXALYTICS?

AGENDA

- ✓ Exalytics At A Glance
- ✓ The Exa Family
- ✓ Do We Need Exalytics?
- ✓ Hardware & Software
- ✓ Times Ten
- ✓ Performance Measurements






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EXALYTICS AT-A-GLANCE

What Exactly is Exalytics?

WHAT IS EXALYTICS?



“Exalytics is an Engineered BI Machine.”

Designed for Oracle BI and EPM applications.

The image shows a server rack with the word "EXALYTICS" written vertically on the left side. Below it are the Sun and Oracle logos. The server rack is open, revealing internal components. A large white "X" is drawn over the server rack.



Scoop on Exalytics

- **First** BI appliance designed for Oracle BI and EPM applications
- Single server **optimized** for in-memory analytics
- Speed-of-thought analysis with **simplicity**
- Requires **no** application redesign or reengineering
- Part of Oracle's "**Exa**" family





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THE EXA FAMILY

What Exactly Is Exalytics?

Oracle's EXA Family

EXADATA

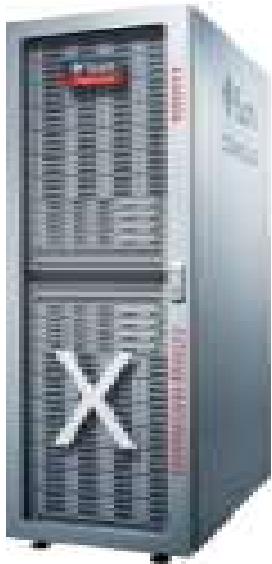


Data Warehousing
OLAP



Analytics
Sub-Second Response

EXALOGIC



Enterprise Apps
High Availability

What exactly is Oracle Exalytics?

EXADATA OVERVIEW



- Pre-integrated **optimized** Oracle database platform
- Extreme **performance** for DW and OLTP
- Highly **scalable** and **secure**
- **Intelligent** technologies
- For DW – **10X** query **performance**.
- For OLTP – **10x** more **concurrent users**



EXALOGIC OVERVIEW

- World's **first** engineered system for Java, Oracle, or Enterprise applications
- Foundation for secure **private** cloud
- **Unlimited** scale & **unbeatable** performance
- **Pre-optimized** and **pre-configured** servers and software
- A combination of **state-of-art** technologies





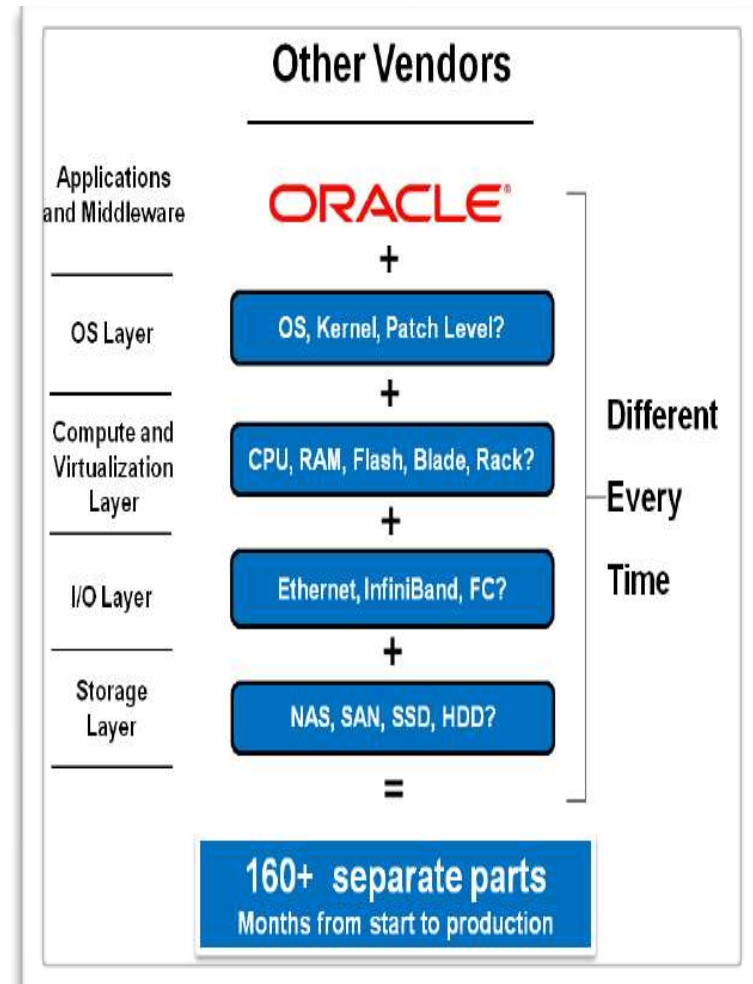
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DO WE NEED EXALYTICS?

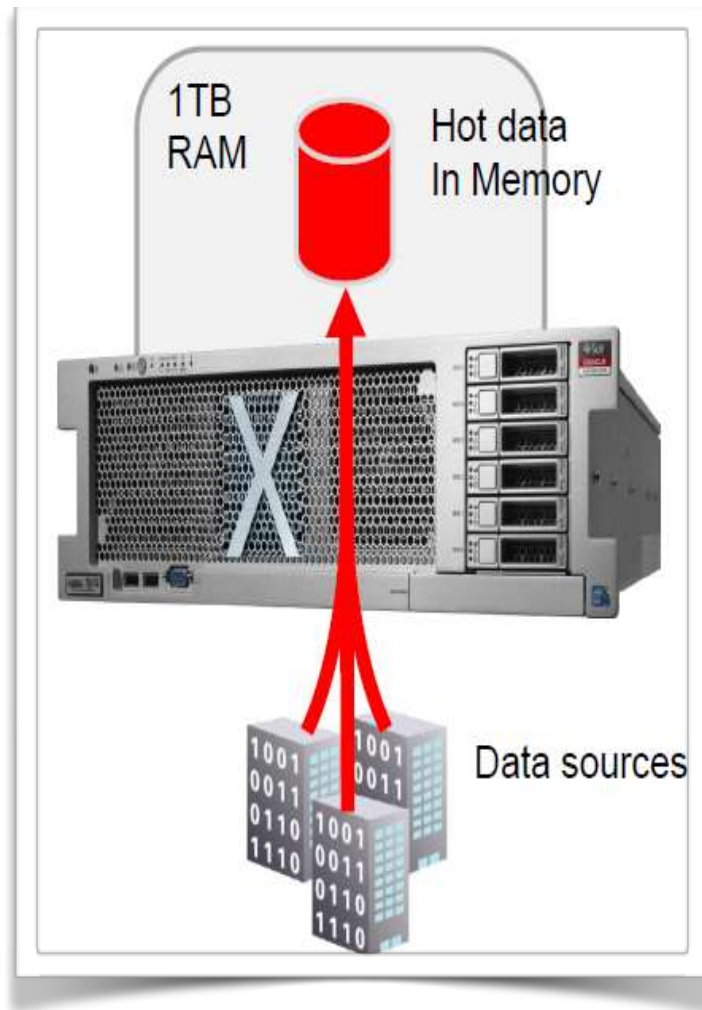
What Exactly is Exalytics?

Common BI Solution Roadblocks

- Multiple Vendors
- Support Issues
- Performance Challenges
- Replicated Data
- Too many servers
- User Acceptance



Engineered BI System



- Sub-second response time
- OBIEE with hardware acceleration and optimization
- Memory with optimization
- In-Memory Database (Times Ten)
- Adaptive In-Memory Caching
- Columnar Compression
- Infiniband connectivity
- A plug and play architecture





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HARDWARE & SOFTWARE

What Exactly is Exalytics?

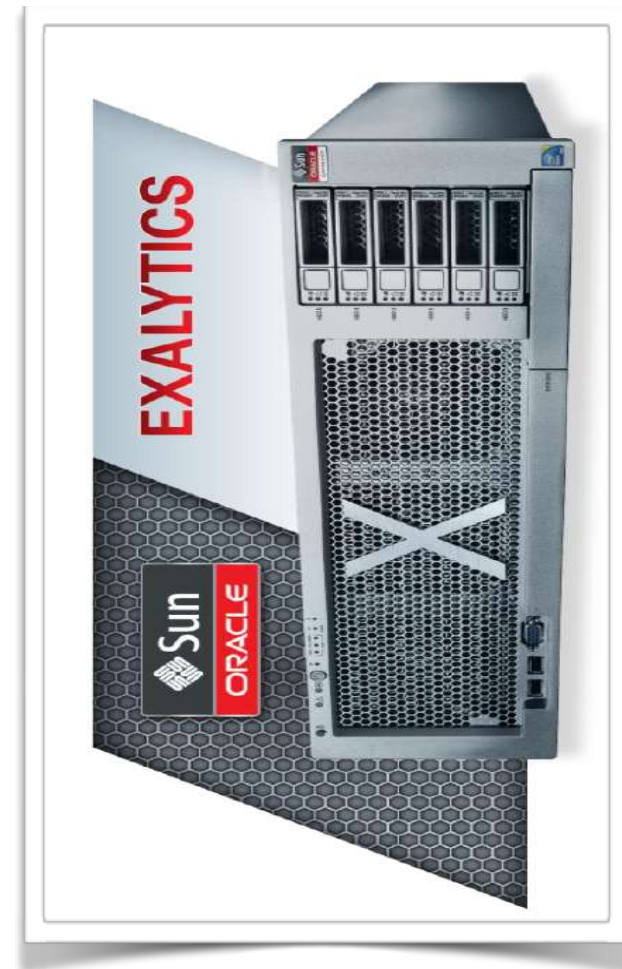
Exalytics Hardware

- Oracle's Sun Fire X4470M2 server with 1 Terabyte of RAM
- 4 Intel Xeon processor E7-4800 (40 cores).
- 2 (40 Gb/s InfiniBand and 10 Gb/s Ethernet)
- 6 * 600 GB Hard disks (3.6 TB)
- Integrated Lights Out Management
- An always On Service Processor
- A configuration of Sun Fire.



Exalytics Software

- Oracle Exalytics Software Media Pack v1 for Linux x86-64
- Exalytics base image based on Exalogic 1.0.0.3
- Exalytics Configuration Tool
- BI Foundation Suite 11.1.1.6.0
- Oracle Times Ten for Exalytics 11.2.2.2
- EPM Suite 11.1.2.1
- Essbase opatch for EPM 11.1.2.2.000

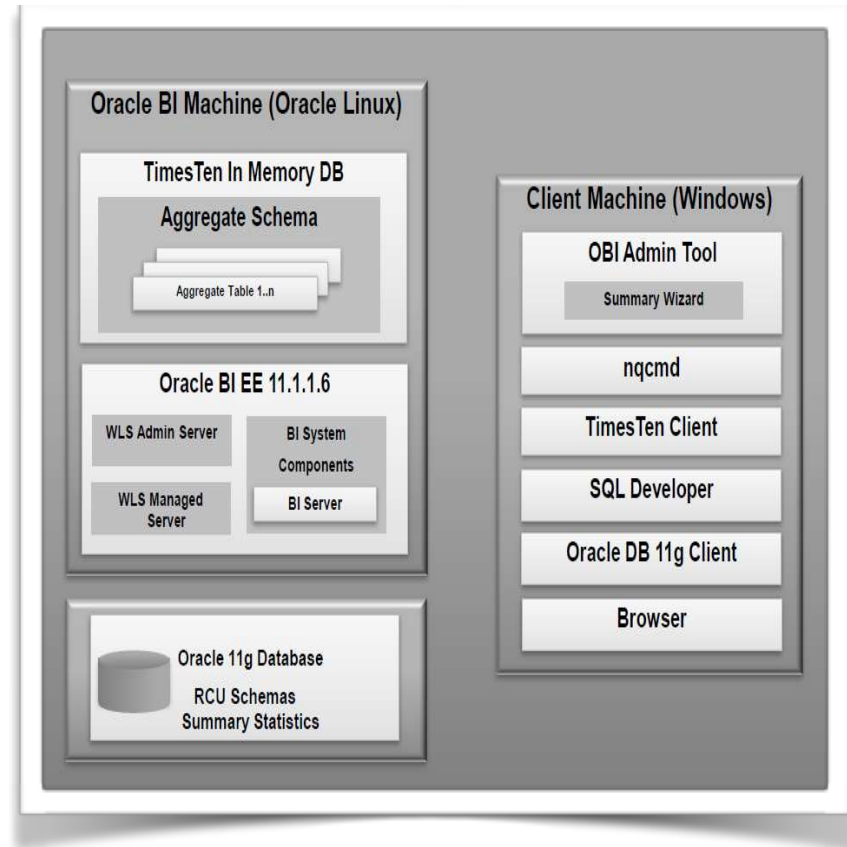




Hardware & Software Optimization

The following techniques help achieve the lightning fast performance:

- In-Memory Adaptive Data Mart
- In-Memory Intelligent Cache
- In-Memory Cubes





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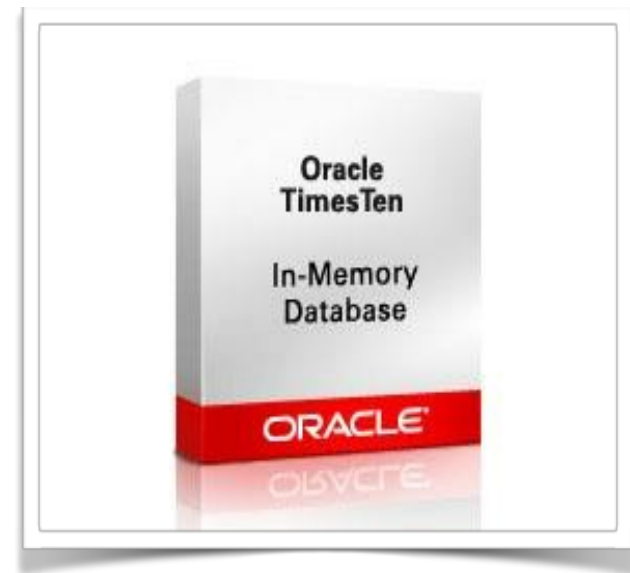
ORACLE TIMES TEN

What Exactly Is Exalytics?



In-Memory Relational Database

- One Times Ten DB per Exalytics machine
- Enhanced with Columnar Compression, Grouping Operators
- Supports multiple caching options
- High Availability





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ORACLE BI ON **EXALYTICS**

What Exactly is Exalytics?

OBIEE on Exalytics

- Hardware Acceleration Flag
- Auto-Complete for Dashboard Prompts or Prompt Search Dialog box
- Supports multi-panel trellis charts and micro charts
- Summary Advisor
- Aggregate Persistence for Times Ten In-Memory DB for Exalytics



Features only found in Exalytics

BI Server

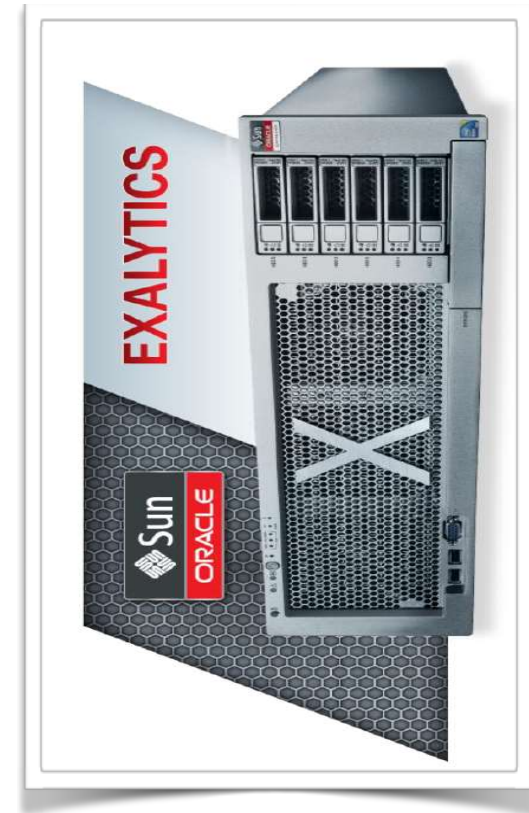
- Optimizations driven by Oracle hardware acceleration flag
- Summary Advisor
- Aggregate Persistence for Times Ten In-Memory DB for Exalytics

Essbase

- Optimizations driven by hardware acceleration flag
- ASO / BSO Optimizations

Oracle Time-Ten In-Memory Database

- OLAP Grouping
- Columnar Compression





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PERFORMANCE

What Exactly Is Exalytics?



Performance Comparisons

OBIEE On Exalytics	Oracle DB	Exadata
Response Time	18 X	23 X
Time To Market	5 X shorter Development Time	

EPM / Essbase on Exalytics	Performance
Essbase Response Time	16 X
Essbase Read	80 X
Essbase Write	20 X
Planning Response Time	20 X
Forecasting	16 X





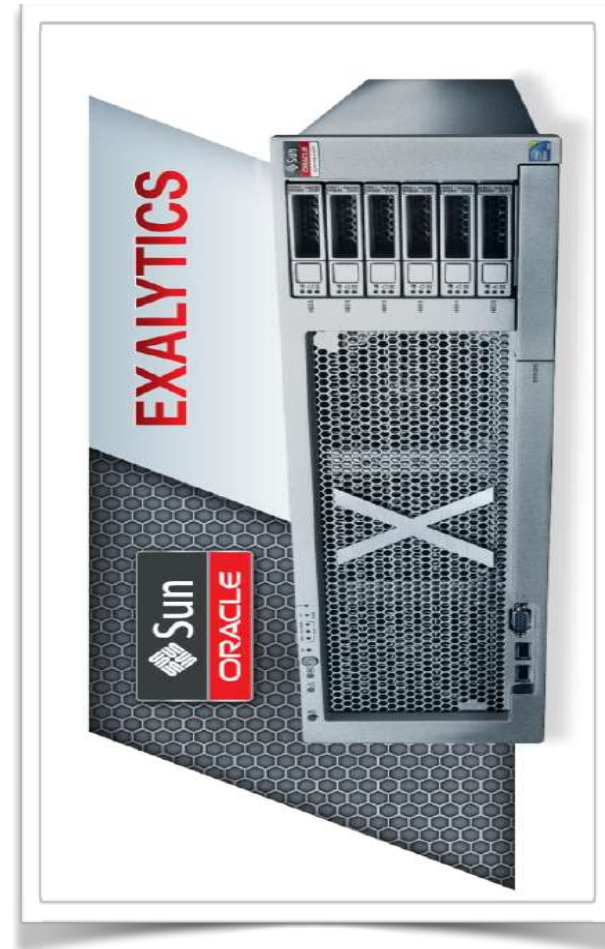
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CONCLUSION

What Exactly is Exalytics?

If you need....

- Consistent sub-second Report response time.
- Better user acceptance.
- Highly interactive and complex reporting needs .
- Consolidate multiple BI systems
- Reduce planning time cycle and re-calculate data faster.
- Single Vendor strategy.



Exalytics is the answer.





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About MindStream Analytics

MindStream Analytics is a leading consulting and managed services provider with a proven track record for helping leading global companies address their enterprise challenges, focused on delivering sustainable profitability and competitive advantage.

Data is a new economic asset that is rapidly expanding and changing. You're challenged to figure out how to use it to your organization's advantage. We work collaboratively with our clients and bringing innovative strategies that enable organizations to gain competitive edge and win with data.

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