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HrOUG

Simplifying IT with Engineered Systems

Tuomo Pyykkönen
Vice President
Customer Support Services, EECIS
October 15th, 2014



Program Agenda

- 1 Refresher from Oracle Open World 2014
- 2 Engineered Systems for Simplifying your IT
- 3 Platinum for Engineered Systems – New Level of Support
- 4 Gartner Report on Integrated Systems – June 2014
- 5 References in CEE

Oracle OpenWorld 2014

7.1
MILLION
online attendees

2.3
MILLION
Oracle social followers

60,000 attendees from
145 countries



420
Oracle demos in the Oracle DEMOgrounds

152,000
cups of coffee

100,000
sodas served during breaks

65,000
lunches served

49,500
juices served during breaks

49,000
gallons of filtered tap water served to attendees in compostable cups or reusable water bottles

2,707 sessions across
17 VENUES in downtown San Francisco

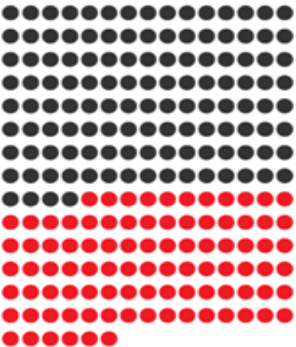
- The Palace
- St. Regis San Francisco
- Oracle Plaza @ Howard Street
- Moscone West
- Moscone North
- Moscone South
- The Intercontinental San Francisco
- Yerba Buena Gardens
- YBCA Forum
- YBCA Theater
- Duke's Cafe'
- Metreon
- Hotel Nikko
- Hilton San Francisco Union Square
- Westin Market Street
- Parc 55
- Marriott Marquis San Francisco

111,946 hotel room nights...and growing

US\$128M
in economic impact to the Bay Area

460 partner and customer exhibitors

3,460 speakers, of which
1,825 are customers and partners



About Oracle

400,000 customers

145 countries



Announcement Highlights

Oracle Cloud Services

Public Cloud Paas GA

Public Cloud Paas Preview

Public Cloud Release 9 of Oracle SaaS Applications

Mobile and Other

New Mobile User Experience for all Oracle Applications

Planning and Budgeting (Hyperion)

In-memory applications – G

Innovation packs for PeopleSoft & Siebel

SRM Social Station Phase 2

M7 Solaris Chip

Zero Data Loss Recovery Appliance

FS1 Flash Storage System

Larry Ellison – Oracle OpenWorld Key Note (1)

2014 - Turning point for Oracle

- We delivered all **SaaS, PaaS, IaaS together**, to **keep a promise** we made to our customers **37 years ago**
 - Software as a Service – applications build and buy strategy to massively extend it
 - Platform as a Service – major upgrades to allow you move any database by pushing one button
 - Infrastructure as a Service – we innovated it all, with 3 things in mind: data security, reliability, lowest possible cost
- Our promise – to **move our customers through technological generations without changing single code line** of their applications
 - Generation 1: Minicomputers; Relational database, SQL
 - Generation 2: Client Servers; PL/SQL, text, messages
 - Generation 3: Internet Architecture (thin clients); unstructured data, objects, XML
 - Generation 4: Database Cloud Service (multitenant); Big-Data In-Memory, Hadoop & NoSQL

Larry Ellison – Oracle OpenWorld Key Note 2014 - Turning point for Oracle

- **Platform as a Service**

- You can move any existent Oracle Database or Application **to Cloud by pushing a button**
- No only moving moving but **automatically modernized**
- Our cloud is the only solution that let you move your application **on cloud and than back on premise**

- **Database As a Service**

- Database has always been our biggest Software Business
- **Database will be our biggest Cloud Business Tomorrow**
- Database PaaS is completely automated:

=> **Huge Reduction of Cost and Human Error**

Larry Ellison – Oracle OpenWorld Key Note (2)

2014 - Turning point for Oracle

- **Software as a Service**

- Covers **all 3 categories** of applications

- Customer Experience

- Human Capital Management

- Enterprise Resource Planning

- 40 EPM SaaS Customers in the last 6 months.

- Industry Specific Application

- Additional Cloud applications with 20-30% for each category

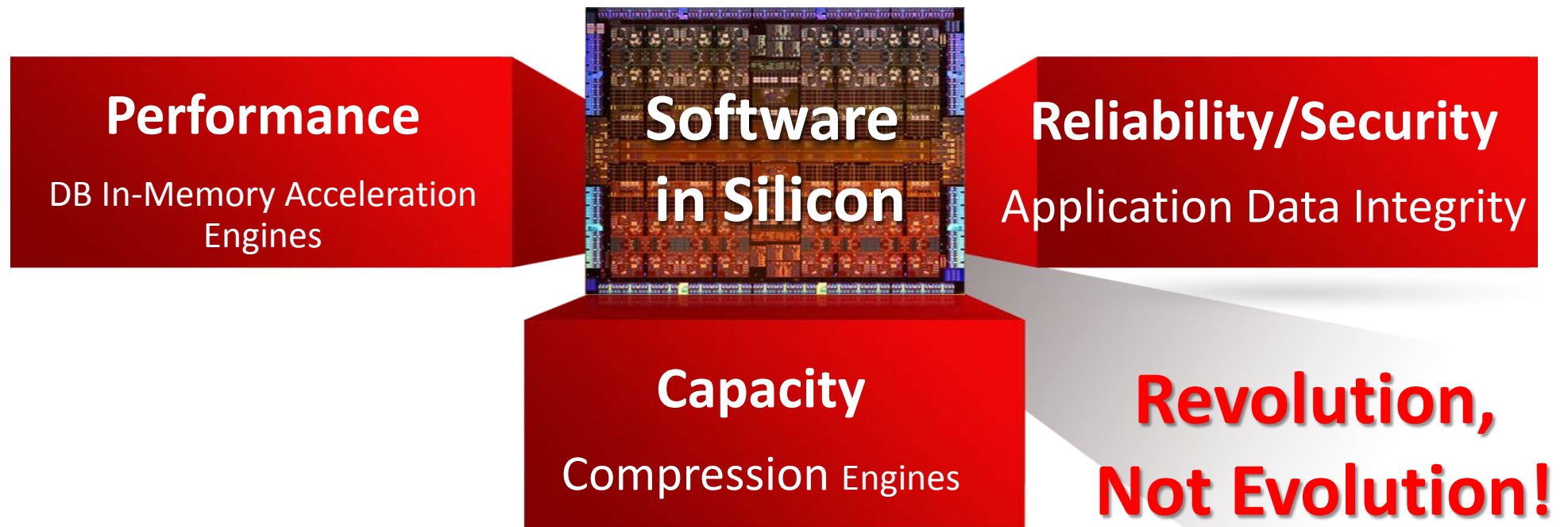
- Over 2000 SaaS customers in last 12 months, and this is just the beginning

- **with Multitenant, Social, Mobile, Security into it**

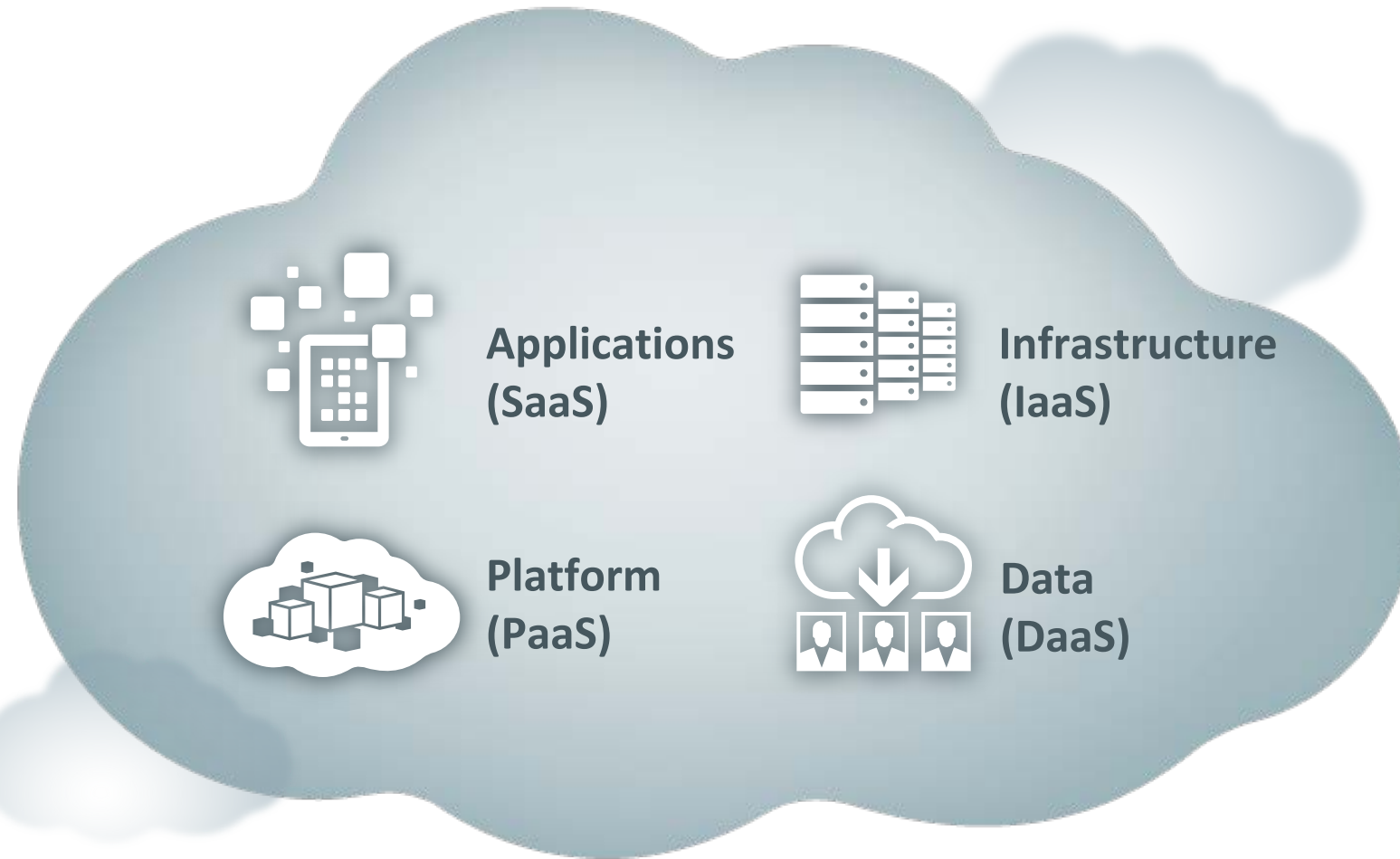
Larry Ellison – Oracle OpenWorld Key Note 2014 - Turning point for Oracle

- **Infrastructure as a Service**





- Cloud Infrastructure Innovation is sitting on Engineered Systems
- Engineered Systems is a short-cut into intelligent infrastructure
- **The Ultimate Software Optimization: Hardware**



The Most Complete Cloud



Deployment choices

-  Private Cloud
-  Public Cloud
-  Managed Cloud
-  Or..... Hybrid

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The Realities of Today's Data Center...

Accelerating Customer Expectations

Instantly Available Services



Wherever They Are



Accelerating Information Growth

Explosion of Data Volume and Types



Transaction Overload



Accelerating Business Complexity

Unpredictability and Rapid Change



Ecosystem Interdependency



... Can Lead to Missed Opportunities

63%
RUN
THE BUSINESS

21%
GROW
THE BUSINESS

16%
TRANSFORM
THE BUSINESS

**WHAT IF
Data Centered
Spending
THE MIX?**

Source: "IT Metrics: IT Spending and Staffing Report, 2012", Gartner Research, 2012

Simplify IT With Engineered Systems



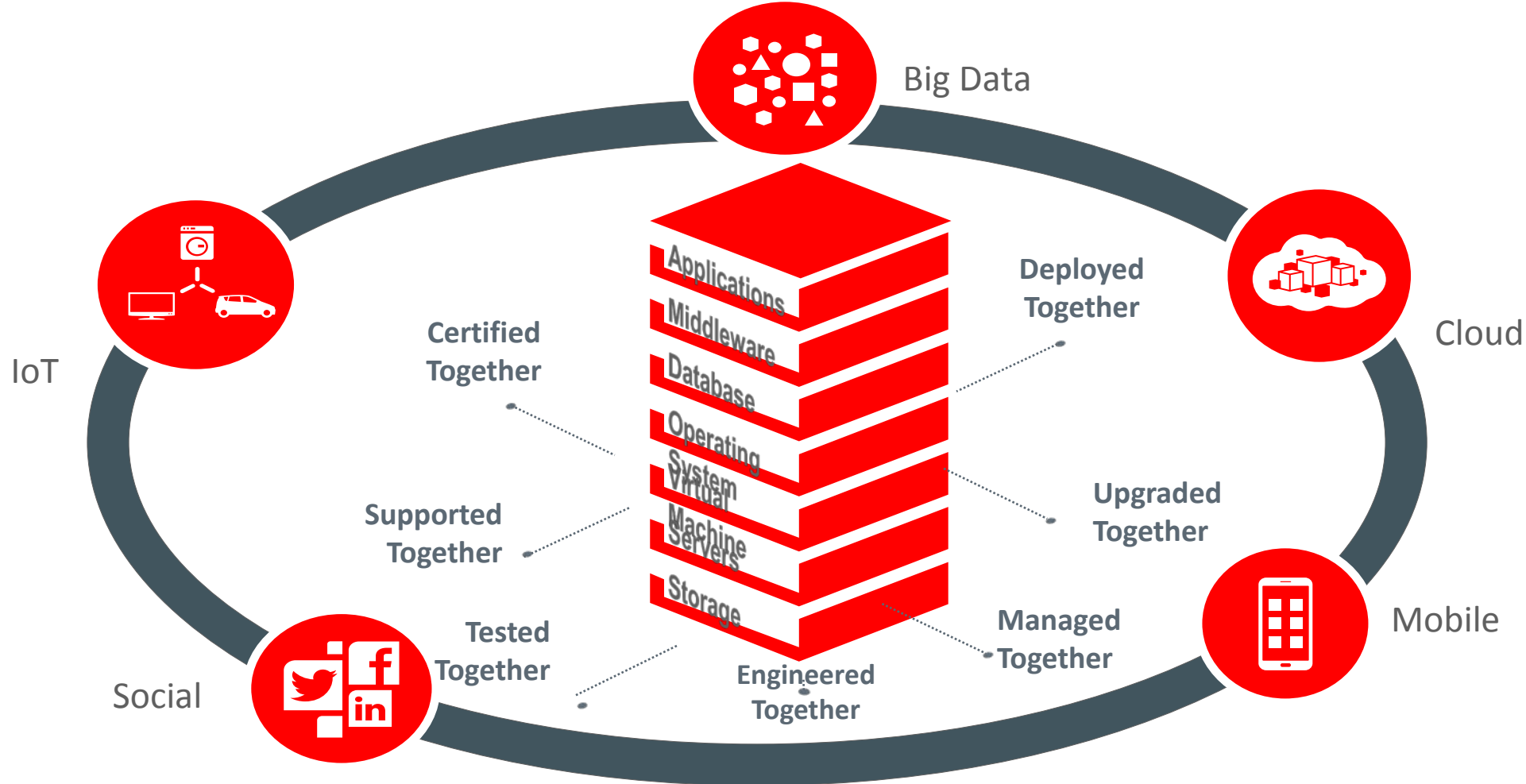
Highest Risk

- ✗ Multiple Vendors
- ✗ Delivered in Pieces
- ✗ Assembled on Site
- ✗ One-Off Configuration
- ✗ Tested By You
- ✗ Painful Maintenance Cycles

Lowest Risk

- ✓ One Vendor
- ✓ Delivered Intact
- ✓ Factory Assembled
- ✓ Standard Configuration
- ✓ Tested Together by Oracle
- ✓ Simpler Maintenance Cycles

Focus on External World



Benefits of This Approach



SHIFT COSTS TO PROFITS

- Slash project costs
- Focus on innovation
- Shift budget to new projects
- Support more clients
- Process more transactions
- Accelerate projects
- Consolidate



Faster Time to Value

IMPROVE TIME TO VALUE

- Beat your “Go Live” date by months not days
- Add new businesses, anytime
- Add new capabilities, when you need them
- Offer new products & services before the competition



Reduce Risk

REDUCE RISK

- Shrink number of IT vendors
- Avoid H/W scheduling delays
- Minimize H/W integration
- Get rid of “finger pointing”
- Avoid “all nighters”
- Ensure system availability

Oracle Engineered System - Family

Software-Led, Workload-Optimized Systems

- Extreme Performance
- Lower TCO
- More Reliable
- Pre-Integrated
- Less Management
- One-Stop Support



**Exadata
Database
Machine**



**Exalogic
Elastic
Cloud**



**Big Data
Appliance**



**Database
Appliance**



**Virtual
Compute
Appliance**



**Exalytics In-
Memory
Machine**



**SuperCluster
T5-8**



**SuperCluster
M6-32
Big Memory
Machine**



**Zero Data
Loss
Recovery
Appliance**

Engineered Systems: Scale With Your Business



Quarter Rack

Half Rack

Full Rack

Multi-rack

- Seamless hardware upgrade
- Flexible software licensing

Exadata X4-2 Compared with X3-2

Much More Performance and Capacity – Same Price

X4-2 Compute per Rack

50% More Database Cores

192 Cores using 12-Core Xeon® CPUs

~2X Faster InfiniBand

InfiniBand PCI-3 Card. All Ports Active

~2X Larger DB Server Local Storage

4.2 TB per server using 600GB Disks

X4-2 Storage per Rack

2X Larger Physical Flash Memory

44 TB of Flash Memory

Up to 4X Larger Logical Flash Memory

88 TB using Flash Cache **Compression**

77% More Flash IOs/sec

2.66M Reads, 1.96M Writes from SQL

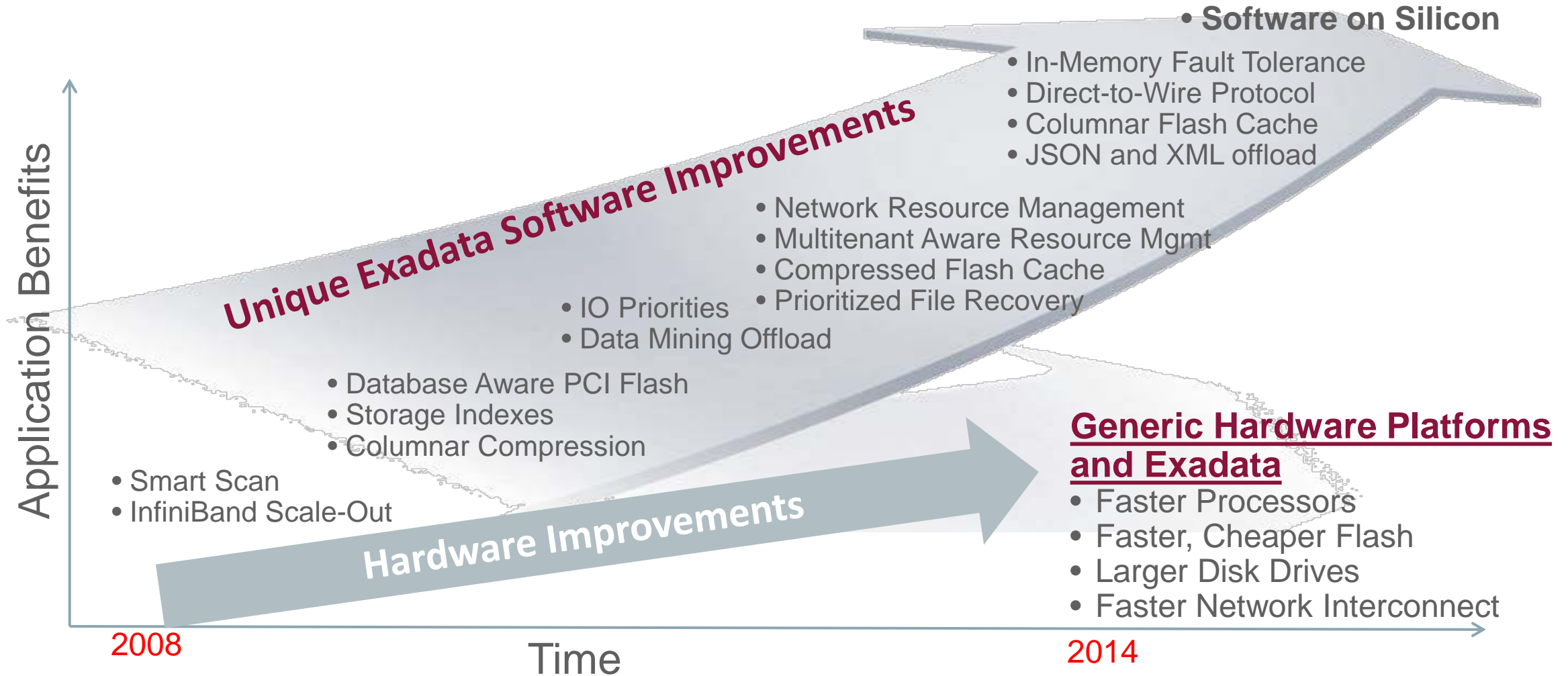
33% Larger High Capacity Disks

672 TB using 4TB Disks

2X Larger High Performance Disks

200 TB using 1.2 TB Disks

Unique Exadata Benefits are Continuously Increasing



Exadata Momentum: 1000s of Mission Critical Deployments

Half are Warehouses, Half are OLTP or Mixed Workloads



- Petabyte Warehouses
- Business Applications
 - SAP, Oracle, etc.
- Online Financial Trading
- E-Commerce Sites
- Consolidation of 100s of Databases
- Leading SaaS Providers
 - Oracle Fusion, Salesforce, etc

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A New Model in IT Support

ORACLE®

SUPPORT

Oracle Platinum Services

- Monitored for You
- Updated for You
- Extreme Value for You

Oracle Premier Support

- Integrated
- Proactive
- Efficient

Traditional IT Support

- Fragmented
- Reactive
- Costly

Oracle Platinum Services

Extraordinary Support for Extreme Performance



Certified Configurations on Oracle Engineered Systems

ORACLE
PREMIER SUPPORT

NO ADDITIONAL COST



FAULT MONITORING



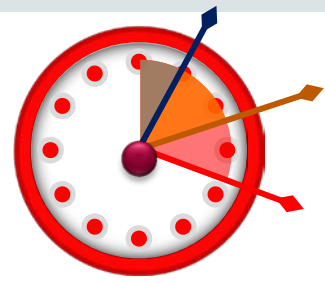
RESPOND AND RESTORE



PATCH DEPLOYMENT

Platinum Support Services for Exadata

Standardization Enables Oracle to Provide Best End-to-End Support



- Industry leading service level response times:
 - 5 Minute Fault Notification
 - 15 Minute Restoration or Escalation to Development
 - 30 Minute Joint Debugging with Development
- Proactive remote monitoring for faults
- Oracle Engineers perform quarterly patching
- Results:
 - 50% fewer severity 1 service requests
 - 31% faster issue resolution than non-Platinum customers
 - 30 % reduced IT resource workload

DECREASED RISK

BETTER AVAILABILITY

REDUCED IT WORKLOAD

No Additional Cost

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Gartner Magic Quadrant for Integrated Systems – June 2014

The integrated system market is growing at 50% or more per year



Combinations of server, storage and network infrastructure, **with management for provisioning and management** of the combined unit

If the end user **has to do the integration**, the technology is **not an integrated system** that is valid for inclusion

Support **Level 1** (call center/service desk) and **Level 2** (escalation) **must be integrated** to facilitate quick and easy problem resolution.

Gartner recommendations and guidelines

1. Treat integrated systems as **data center modernization and transformation** projects
2. Validate whether **convergence** can be applied usefully **toward your goals and experience** levels, and include proofs of concept
3. Decide on the vendors and partners considering **maintenance support matrix, capacity planning and operational impact** assessment
4. Ask vendors to provide "**road map of road maps**" for the entire asset.
5. Understand **upgrades** during operational lifetime and calculate **capacity planning**
6. **Restructure asset depreciation cycles** to reflect the extended life span of integrated system assets.
7. Prepare to **overhaul software** licensing rules, discount calculations and ROI expectations for integrated systems- especially those that have embedded software stacks.

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Gartner – Oracle strengths

“So if Oracle Database Management System (DBMS) serving is the required workload, **the only viable** Integrated Stack Systems solution would be an Oracle Engineered System. “

1. Strong (and growing) **portfolio** of integrated systems
2. Vendor has close **alignment** of its software and hardware **strategies**
3. Oracle has an opportunity to **cross-sell and up sell** into its installed base
4. **Proven performance** benefits for Oracle software workloads
5. Vendor has **aggressive marketing and product strategies**
6. Oracle enables **application owners** to become an **effective buying center** and point of administration for its Engineered Systems.

Gartner – Oracle Cautions (1)

A fear of vendor lock-in

- **Caution:** A fear of a greater degree of vendor lock-in when integrated systems extend to include the software stack
- **Gartner recommendation:** “the vendor has achieved clear market leadership for the use cases where users are willing to invest in an appliance like solution that delivers very good workload performance, while greatly simplifying the task of workload integration and management”

Perceived as relatively expensive

- **Caution:** Engineered Systems are perceived as relatively expensive
- **Gartner recommendation:** “Plan a differential analysis on converged versus best-of-breed; legacy retention or legacy disposal; human resource retention, transference or reduction; and capital expenditure/operating expenditure (capex/opex) cost comparisons (including retooling). “

Gartner – Oracle Cautions (2)

Conflict between administrators roles

- **Caution:** Greater risk of conflict if line-of-business administrator roles are not synchronized with the aims of the data center administrators
- **Gartner recommendation:** As **data center technology becomes increasingly modular**, IT organizations, procurement departments, lines of business and asset control departments **must reassess** life cycle and depreciation planning **approaches**, as well as purchasing **policies**, to account for the extended life spans of integrated systems”

Need to validate references

- **Caution:** Potential customers need to validate references and use cases for Engineered Systems other than Oracle Exadata Database Machine

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If not already,
when do we
start?

Hardware and Software Engineered to Work Together

ORACLE®

Turkcell: DW and DB Consolidation

Benefits

"In a word, Oracle Exadata is fantastic. Almost no report takes more than 10 minutes to run, versus hours before. It sounds unreal, but it's real."

- Power User, Finance Department, Turkcell

Faster Reports

10X

27 min to 3 min
(avg for 50k rpt)

Storage Savings

900 TB

1,000 TB to 100 TB

Reduced Admin

20%



80% Less Power
30 m² Less Space



Business Objectives

- Speed up BI
- Lean, green data center
- Prepare for big data growth

Solution

- 2010: Replace 11 racks with 1 full-rack Exadata for DW
- 2013: Add 2 full-rack Exadata for DB consolidation

