



## **Oracle on OpenVMS, A Platform Update**

Gary Huffman  
Development Manager  
Oracle OpenVMS Engineering Group



# Agenda

## An Oracle Database on OpenVMS Update

- You have heard from Kevin
- Discuss how we are going to deliver 10.2.0.5.0
  - OpenVMS 8.4
    - Provides the latest OS available
    - Provides Soft Link support
    - Do you have a problem upgrading to 8.4?
      - Note: 10.2.0.2.0 & 10.2.0.4.0 is certified on OpenVMS 8.4
- Currently Supported Products
- Products in the Near Future



# OpenVMS Porting Environment (VPE)

- We are using OpenVMS sym-links to do our labeling and build
  - First time
- Long file names used natively
- NFS support sym-links and long file names
- A label and completed build
  - For 10.2.0.4.0 near 30 days
  - For 10.2.0.5.0 near 4 day
- Integrity can copy objects over NFS, but Alpha cannot
  - Alpha environment requires additional work arounds



# Oracle OpenVMS Current Releases

- 10.1.0.5 Alpha
  - CPU patches continuing upon request
  - Targeted for Indefinite Support early 2012
- 10.2.0.4 Alpha and Integrity
  - Alpha & Integrity shipped together
  - New features
    - AUDIT\_FILE\_DESTINATION support
    - Improved Stat Pack Information
    - Multiple Database Write Processes (DBWR)
    - Database Vault
  - Will be in extended support though minimum of 1 CPU/PSU cycle after 10.2.0.5 is release on OpenVMS



# Oracle OpenVMS Current Releases(cont)

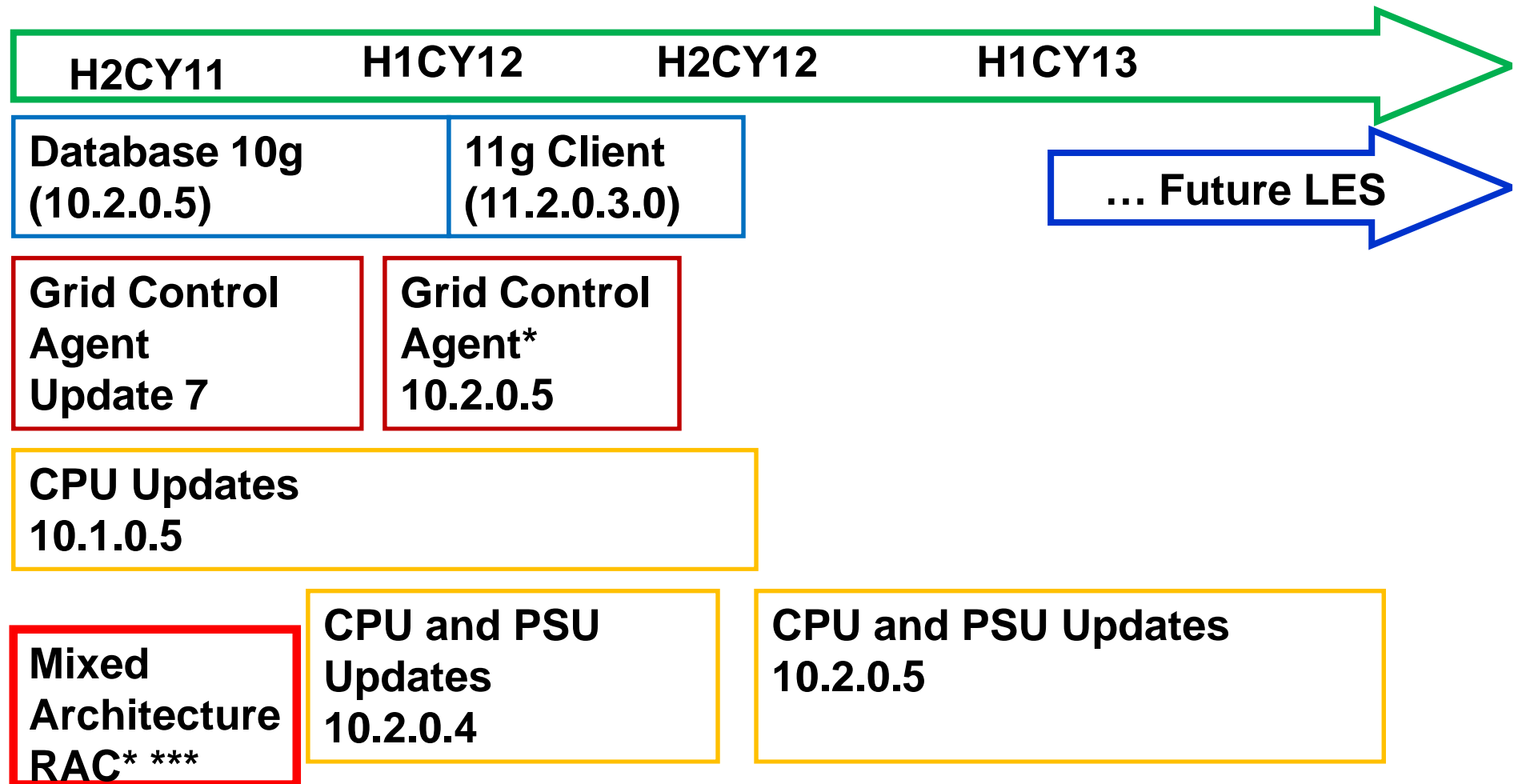
- Grid Control Agent
  - 10.2.0.2 GC Agent for Integrity and Alpha shipping
    - Patch kit 6 is the latest version
- Audit Vault Agent
  - 10.2.0.3.2 Audit Vault Agent for Integrity and Alpha
    - OpenVMS Oracle Database 10.2.0.4



# Projects in Development

- MAR (Mixed Architecture RAC)
  - Only available for 10.2 Alpha/Integrity
  - Contact [Kevin.Duffy@oracle.com](mailto:Kevin.Duffy@oracle.com) if interested
- Audit Vault Agent (10.2.3.2)
  - AV PSU in planning
- Grid Control Agent (10.2.0.2)
  - VMS Patch Kit 7 undergoing integration
- Grid Control Agent (10.2.0.5)
  - Terminal version for GC 10g
  - Will release shortly after 10.2.0.5.0 Database

# Oracle Database on OpenVMS Roadmap





## 10.2.0.5.0 in Planning

- Real Application Cluster Improvements
  - Addressing install issues
  - Provide Multi Architecture Support with release.
- Evaluating the option of supplying DB Console
  - Do you think this would be useful?
- Updated Data Vault
- Any features you wish to inquire about?





# **11.2.0.3.0 Oracle Client on OpenVMS**



# What will an Oracle 11g Client Kit Provide to OpenVMS

- Support to Oracle 12 and beyond
- Standard Supported client tools (next slides)
- Upgraded Security Functionality
- Ability to extend the functional lifespan of your OpenVMS written applications

# Client / Server / Interoperability Support Between Different Oracle Versions

Client Version	Server Version											
	11.2.0	11.1.0	10.2.0	10.1.0	9.2.0	9.0.1	8.1.7	8.1.6	8.1.5	8.0.6	8.0.5	7.3.4
11.2.0	Yes	Yes	<u>ES #7</u>	No	<u>LES #5</u>	No #3	No #3	No #3	No #3	No #3	No #3	No #3
11.1.0	Yes	Yes	<u>ES #7</u>	<u>ES #6</u>	<u>LES #5</u>	No #3	No #3	No #3	No #3	No #3	No #3	No #3
10.2.0	<u>ES #7</u>	<u>ES #7</u>	ES	ES	<u>LES #5</u>	No	Was	No #3	No #3	No #3	No #3	No #3
10.1.0(#4)	<u>ES #6</u>	<u>ES #6</u>	ES	ES	LES	Was	<u>Was #2</u>	No #3	No #3	No #3	No #3	No #3
9.2.0	<u>LES #5</u>	<u>LES #5</u>	<u>LES #5</u>	LES	LES	Was	Was	No	No	Was	No	<u>No #1</u>
9.0.1	No	No	No	Was	Was	Was	Was	Was	No	Was	No	Was
8.1.7	No	No	Was	Was	Was	Was	Was	Was	Was	Was	Was	Was
8.1.6	No	No	No	No	No	Was	Was	Was	Was	Was	Was	Was
8.1.5	No	No	No	No	No	No	Was	Was	Was	Was	Was	Was
8.0.6	No	No	No	No	Was	Was	Was	Was	Was	Was	Was	Was
8.0.5	No	No	No	No	No	No	Was	Was	Was	Was	Was	Was
7.3.4	No	No	No	No	Was	Was	Was	Was	Was	Was	Was	Was

# Technology Applications

## *Itanium Support Dates*

Oracle Software	Last Version Available On Itanium-based HP Servers	GA Date	Premier Support available until:	Extended Support available until:	Next Software Release Not Available On Itanium-based HP Servers
Fusion Middleware	11gR1	6/09-11/10	6/14-11/15	6/17-11/18	12g
Business Intelligence	11gR1	8/10	8/15	8/17	12g
Oracle Database	11gR2	9/09	1/15	1/18	12g
MySQL	5.5	12/10	12/15	12/18	5.6
Enterprise Manager	11gR1	4/10	4/15	4/18	12g
Linux	5.6	3/07	3/15	NA	6.0
Oracle Rdb	7.3	3/11	3/16	3/19	7.4 or 8.0

ORACLE

Oracle customers should use [My Oracle Support](#) to confirm the support timelines for their specific configurations.

# Technical Support Policy Updates

- **Database 10gR2 – Itanium Platforms**

- Three (3) 10gR2 Itanium platforms will receive fee waiver for all 3 years of Extended Support, August 2010 – July 2013
- Platforms will also receive an extension to Extended Support. The extension will provide S1 fixes only, no CPUs.
- Additional Extended Support periods will be available for then-current Extended Support fees

Itanium Platforms	
Platform	Additional Extended Support: S1 Fixes Only
Linux Itanium	August 2013 – July 2015
Windows Itanium	August 2013 – July 2015
HP OpenVMS on Itanium	August 2013 – July 2017



# 11g Client Kit Contents

- Oracle SQLJ
- Oracle Database Utilities
- Oracle Java Client
- SQL\*Plus
- Oracle JDBC/THIN Interfaces
- Oracle Internet Directory Client
- Oracle Call Interface (OCI)
- Oracle Programmer
- Oracle XML Development Kit
- Oracle Advanced Security
- Enterprise Manager Minimal Integration
- OLAP Analytic Workspace Manager and Worksheet
- Oracle Net



## 11g Client Kit Contents (cont.)

- Oracle Connection Manager
- Oracle Net Listener
- Oracle Multimedia Client Option
- Oracle ODBC Driver
- Oracle Clusterware High Availability API
- Oracle SQL Developer
- Oracle Scheduler Agent
- Oracle Services For Microsoft Transaction Server
- Oracle Administration Assistant for Windows
- Oracle Counters for Windows Performance Monitor
- Oracle Objects for OLE
- Oracle Provider for OLE DB
- Oracle Data Provider for .NET
- Oracle Providers for ASP.NET

# The client gives you options

- You can use 10.2.0.5.0 database on OpenVMS until is convenient to relocate it to another platform
- It is easy to migrate Oracle Databases;
  - Oracle is oracle:
    - Transportable datafiles
      - Files can be copied to target system, attach and use
        - Note: There are constraints on this i.e. endian & a conversion task
  - Import/Export (rman)
    - Reminder always backup your data before making large scale conversions.
  - PLSQL will be mainly transparent to migrate and rebuild your packages.
    - PLSQL external procedures to be ported to target OS





## Release target summaries

- 10.2.0.5.0 Oracle Database Patch Set
  - Only on OpenVMS 8.4
    - Q1CY2012
- 11.2.0.3.0 Oracle Client Kit on OpenVMS
  - Only on OpenVMS 8.4
    - Q2CY2012

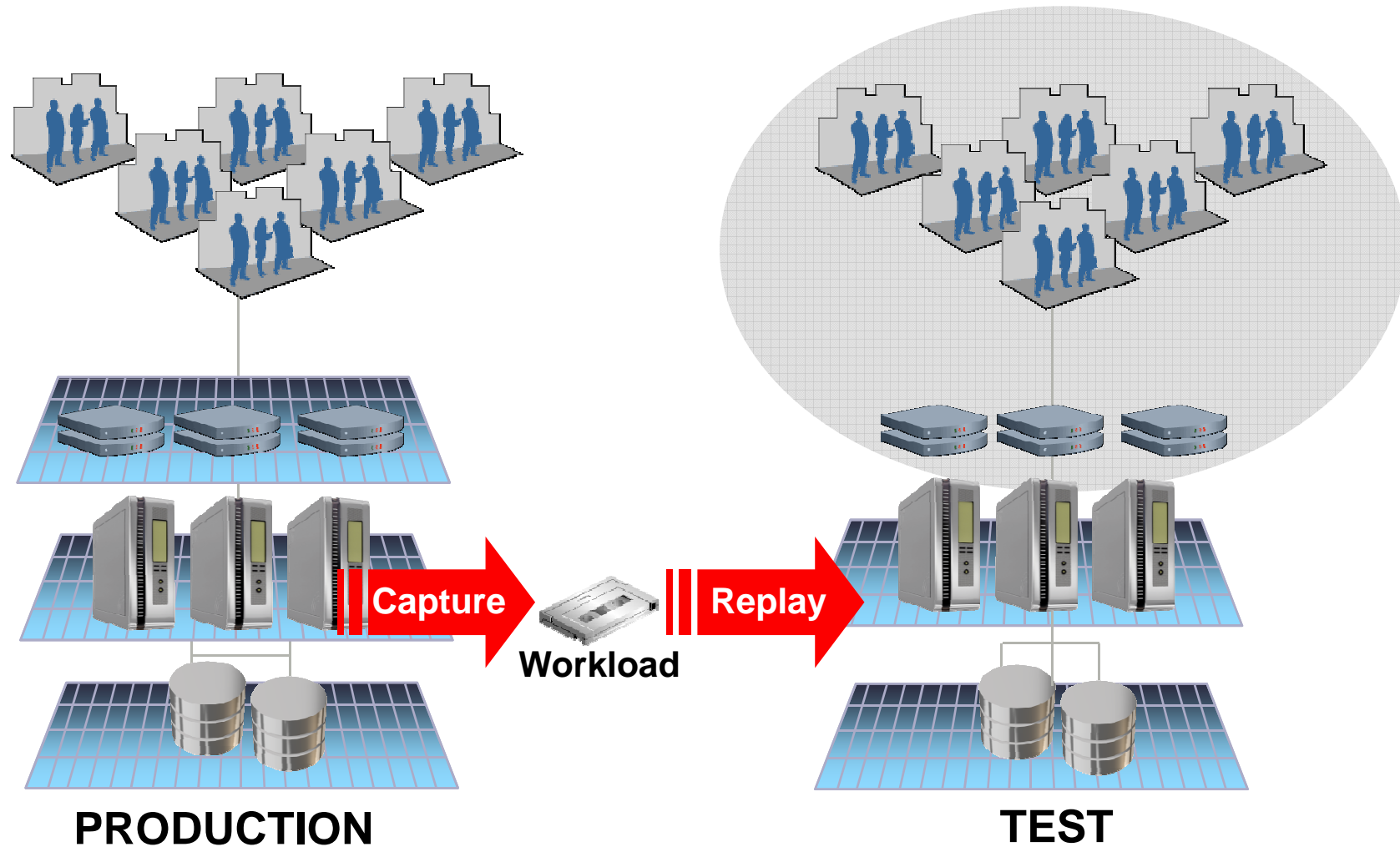


**WHAT CAN BE DONE TO KNOW IF A 10.2.0.5.0  
DATABASE WILL PERFORM AS DESIRED IN 11G?**

# Oracle 11gR2 – Real Application Testing

# Real Application Testing

Workload for 1,000s of Online Users Replayed



ORACLE



# Real Application Testing (RAT)

- <http://support.oracle.com>
  - Doc ID 742645.1
    - For command line interface.
- ITANIUM
  - BUG 12886262 - PSE FOR BASE BUG 10239989 ON TOP OF 10.2.0.4.4 FOR HP OPENVMS ITANIUM
  - BUG 12902412 - PSE FOR BASE BUG 9861099 ON TOP OF 10.2.0.4 FOR HP OPENVMS ITANIUM
- ALPHA
  - BUG 12902598 - PSE FOR BASE BUG 10239989 ON TOP OF 10.2.0.4.4 FOR HP OPENVMS ALPHA
  - BUG 12902539 - PSE FOR BASE BUG 9861099 ON TOP OF 10.2.0.4 FOR HP OPENVMS ALPHA




## RAT Continued.

- The following two links documenting how to use emagent to manage your record and playback will possibly be applicable when 10.2.0.5 GC Agent is release. (planned, feasibility unknown.)
  - <http://www.oracle.com/technetwork/testcontent/11gr1-beta4-db-replay-viewlet-swf-089672.html>
  - <http://www.oracle.com/technetwork/database/focus-areas/manageability/db-replay-cli-128678.zip>



## For More Information

<http://search.oracle.com>



**{Oracle database 10gR2}|{Oracle 11gR2 Client}**  
**or**

**[www.oracle.com/database](http://www.oracle.com/database)**

# Oracle Database on OpenVMS Questions?



ORACLE®

**SOFTWARE. HARDWARE. COMPLETE.**