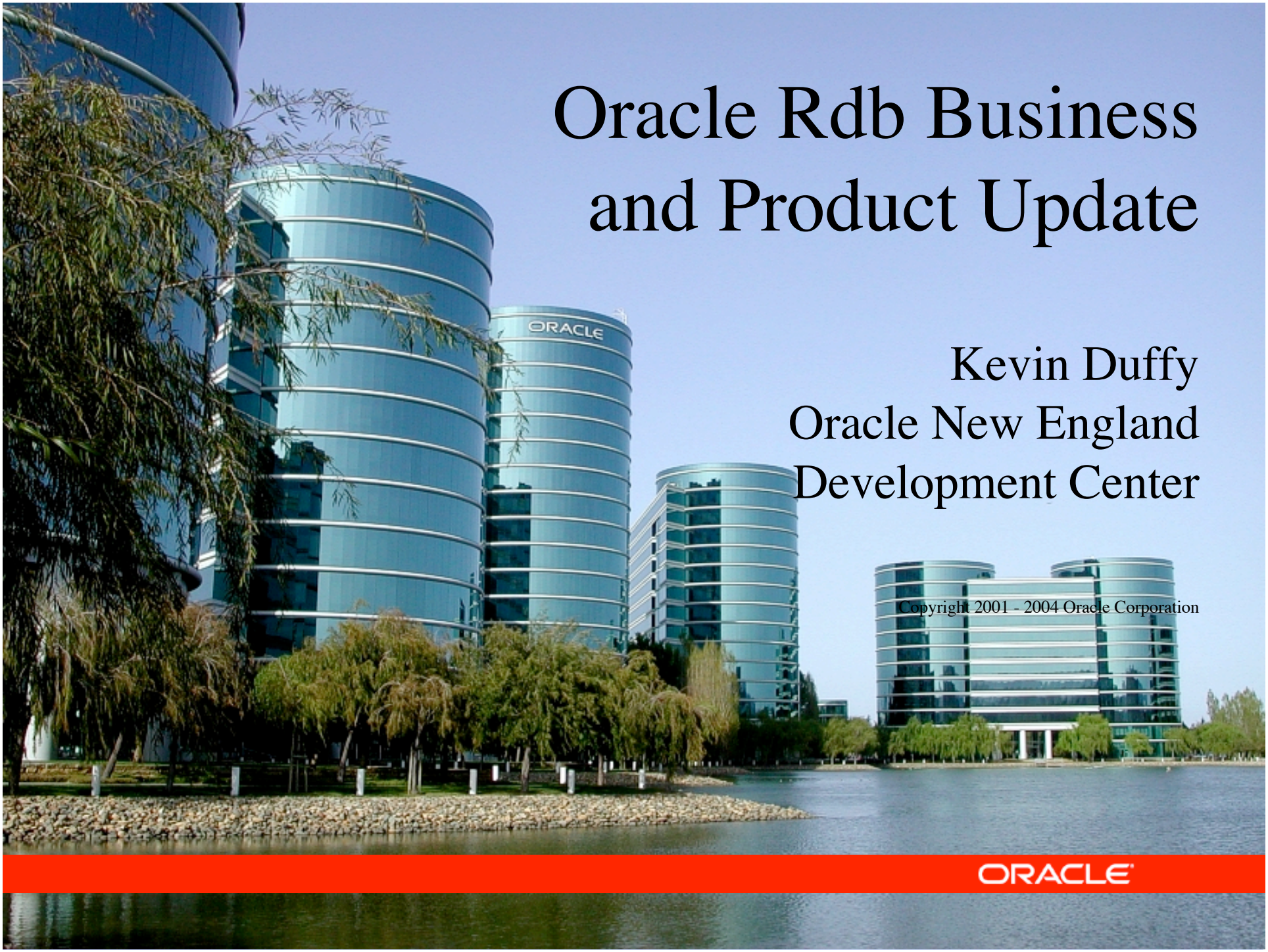

Oracle Rdb Business and Product Update

Kevin Duffy
Oracle New England
Development Center

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Agenda

- Oracle's Commitment to Rdb
- Product Strategy
- Recent Release History & Feature Overview
- Current Development Activity
- Roadmaps
- Oracle Electronic Product Delivery

Rdb : Model for Oracle Software Acquisitions

- *"....We know how to do this. Ask any customer from our Rdb database acquisition from Digital Equipment Corporation. Nearly nine years later, we are still providing world-class support to thousands of Rdb customers running mission-critical applications."*

Larry Ellison, Oracle CEO quoted in advertisements in Business Week, The Economist, Wall Street Journal + Others

Second Town Hall Meeting: Wednesday, September 3, 2003

"At our second Town Hall meeting, participants interacted with Oracle Executive Vice Presidents Chuck Phillips and Mike Rocha as they elaborated on the planned enhancements to PeopleSoft customer support and discussed the mechanics for a smooth migration. The meeting also included comments from Bob Pacek, senior vice president and chief information officer of DIRECTV, as he provided insight into how his company benefited from Oracle's acquisition of the Rdb database from Digital Equipment Corporation. "

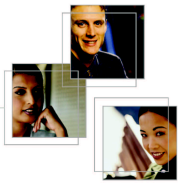
http://www.oracle.com/peoplesoft/index.html?townhall.html

Press Release, Monday, September 15, 2003

REDWOOD SHORES, Calif., Sept. 15 /PRNewswire-FirstCall/ -- (http://www.oracle.com/tellmemore/?2337269) Oracle Corp. (Nasdaq: ORCL - News), the world's largest enterprise software company, today reaffirmed its strong commitment to Rdb customers, who praise the company for its nine years of post-acquisition support, innovation and stewardship. Since its acquisition of Rdb from Digital Equipment Corporation in 1994, Oracle has continued to maintain a focus on quality and stability while enhancing the Rdb features customers have deployed in production environments worldwide. Oracle also adds value to its Rdb customers through support of other Oracle technologies, including Oracle® Database and Oracle Application Server.

"Ten Years Later" White Paper

Ten Years Later: Thousands of Satisfied Oracle Rdb Customers



No forced migrations—Oracle delivers post-acquisition support, innovation, stewardship

When Oracle acquired Rdb from Digital Equipment Corporation in 1994, we promised to focus on quality and stability while enhancing features based on customer demand. With the acquisition, we purchased patented technology, skilled engineers, and access to an important customer base. Ten years later, we're keeping our promise to thousands of customers worldwide through technical innovation and unwavering support for their mission critical Rdb systems.

Committed to the Future of Rdb

Rdb is over 20 years old, yet in just ten years Oracle has developed more than 50 percent of the code base. Our significant enhancements, dedication, support, and resources continue to make Rdb the best choice for high-throughput database applications on OpenVMS systems—everything from cellular phone billing systems and lotteries to major financial exchanges—and satisfied customers like Intracorp prove it.

"I've worked with Rdb for more than 16 years. Oracle has maintained the outstanding level of customer support for Rdb that existed before its acquisition, and has continued to develop new features and performance enhancements," says Ken McGinnis, database administrator for Intracorp, a Philadelphia-based medical management company with more than 20,000 customers.

When Digital sold the Rdb set of database products, the move concerned many Rdb customers. They wanted assurance that their mission-critical resource would be dependable into the next millennium. Thanks to Oracle, Rdb customers have unequivocally received that assurance.

After acquiring Rdb, we formed independent Rdb Customer Advisory Councils in four regions—North America, Europe, Japan, and Australia/New Zealand—and then listened closely to what the councils had to say, building innovative features to meet customer demand. Ten years later, these same customers praise our successful management of Rdb's acquisition and transition, demonstrating our clear grasp of the different customers and markets for Oracle and Rdb.

While the original contract with Rdb called for three years of development and seven years of support, we've gone well beyond that agreement, with ten years—and counting—of Rdb development and support. With the acquisition, some 90 percent of Digital Rdb employees chose to stay on with Oracle. In fact, Oracle's head of technology development, Executive Vice President Charles A. Rozwat, is a former Digital Rdb executive who joined during the acquisition. Most of the development team, which remains in Nashua, New Hampshire, continues to fulfill commitments made to the Rdb customers, including the development of innovative, high-quality features as prioritized by customers and the councils; broadening the Rdb application set; and integrating Rdb with Oracle's long-term strategies.

04/0472

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http://www.oracle.com/peoplesoft/rdb_casestudy.pdf

Customers Respond

"When Oracle acquired the product in 1994 we were very worried about Rdb's future. Our worry was misplaced. Oracle instituted processes to help ensure customers were well informed about the future of Rdb. At the same time, Oracle gave Rdb a new lease on life by significantly increasing the resources devoted to enhancing the database. At no point have we felt pressured to move to Oracle's main database product."

Chris Barratt
Development Manager
Flinders Medical Centre

Customers Respond

"We began to use Rdb in 1991 and were concerned about continued support when Oracle acquired Rdb. We need not have worried. The support has been very good and very professional and we have always received an immediate response to our inquiries. At no time did Oracle raise the question of migration to their database. The service provided has always been of the highest professional standard."

Agustin Ramos
Systems Technology Manager
Bolsa de Madrid

Interview with Charles Philips and Ray Lane, in the April 2004 issue of Optimize

"Also, I'd like to remind you that Oracle's done a similar transaction before—actually several, but one fairly large one. With the acquisition of Rdb, a database company purchased from Digital Equipment about 10 years ago, we promised to focus on quality and stability, while enhancing features based on customer demand. At the time, Rdb users had the exact same questions about the takeover you're asking us today. We looked closely at what Rdb customers had to say, working together with their user groups. The bottom line was that we didn't require customers to upgrade to our products. In fact, even today, we still help thousands of Rdb customers running important applications. And we gained some great people from that acquisition as well. The head of our entire technology-development division came from Rdb. So we think the record speaks for itself."

http://www.optimizemag.com/article/showArticle.jhtml?printableArticle=true&articleId=18700536

Rdb Marketing Focus

- Focus on meeting our customers' needs
- Activities
  - Rdb Web page, Rdb Web Journal, MetaLink, OTN
  - Rdb Management personal customer visits
    - Well over 100 customer visits per year
    - Hundreds more via e-mail and telephone
  - Rdb Technical Forums
    - 8 in 2005
  - Events
    - Oracle Users' Group
    - Oracle Open World
    - HP OpenVMS events

How Rdb Is Used

- Trading commodities, equities and futures: US, UK, Australia, Austria, Sweden, Spain, France, Greece, Italy, Switzerland, Hong Kong, Singapore, Korea and Germany
- Mobile phone systems: US, Japan, Hong Kong, UK, South Africa, Peru, Germany, Austria, Czech Republic, Denmark, France, Greece, Portugal and Switzerland
- Semiconductor manufacturing: Worldwide
- Lottery Systems: Europe, Canada, Australia, South America and the US
- Automobile manufacturing
- Short Messaging Service: Worldwide
- Passport control: New Zealand
- Government: Irish Social, Community and Family Affairs
- Education: Europe, United States, Australia -largest secondary education system in Southern Hemisphere
- Car Reservation systems in the United States
- Satellite Television: United States
- Automatic Toll Systems: United States

Product Development Strategy

1. High-end OLTP systems focus
   - High performance
     - Unique scalability on OpenVMS
     - Extensive tuning capabilities
   - High availability
     - Robust on-line management
2. Integration with Oracle software environment
   - Oracle Developer Suite
   - Oracle Application Server
     - Extend Java, JDBC support
   - Oracle Enterprise Manager
   - Oracle Database

- HP's OpenVMS will remain the only supported Operating System

Rdb 7.0 Product Family Software Releases Since June ‘04

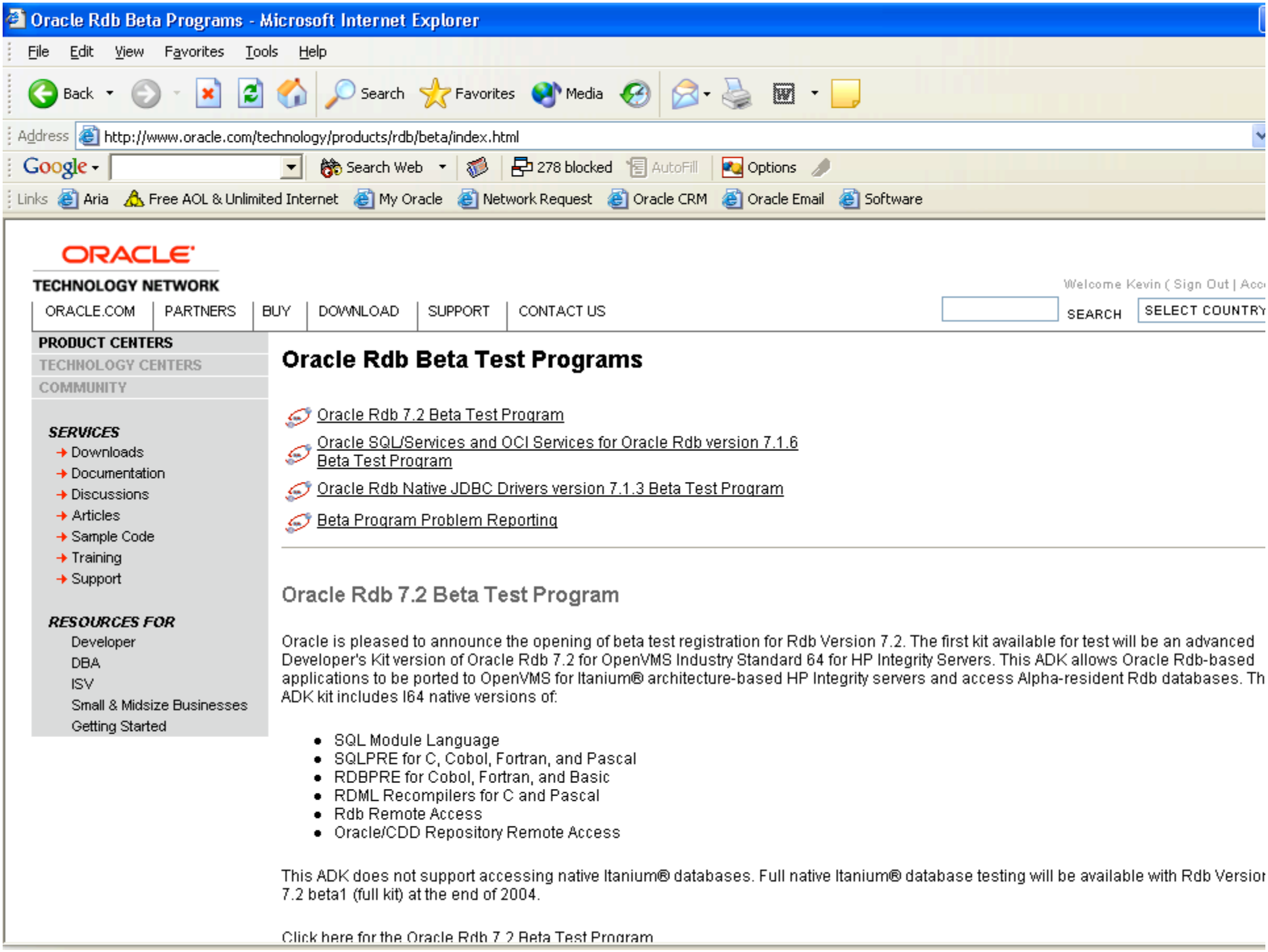
- Rdb 7.0.7.3, June ’04
- ROR Patch for 7.0.1, June ‘04
- CODASYL DBMS 7.0.5.1, July ’04
- Rdb 7.0.8, April ‘05

Rdb 7.1 Product Family Software Release Since June ‘03

- Rdb 7.1.3, September ’04
- CODASYL DBMS 7.1.1.0, October ‘’04
- Rdb 7.1.3 Update kit, November ‘04
- Rdb 7.1.4, December ’05
- Rdb ODBC 3.1.0.2, February ’05
- Rdb Native JDBC drivers 7.1.3

Current Beta Releases

- Rdb 7.2 Beta1
  - SQL Module Language
  - SQLPRE for C, Cobol, Fortran, and Pascal
  - RDBPRE for Cobol, Fortran, and Basic
  - RDML Recompilers for C and Pascal
  - Rdb Remote Access
- Oracle/CDD Repository version 7.2
- CODASYL DBMS 7.2
- Rdb SQL/Services and OCI Services for Rdb version 7.1.6
- To join the beta programs, customers can register at : http://www.oracle.com/technology/products/rdb/beta/index.html


Oracle Rdb Beta Programs - Microsoft Internet Explorer
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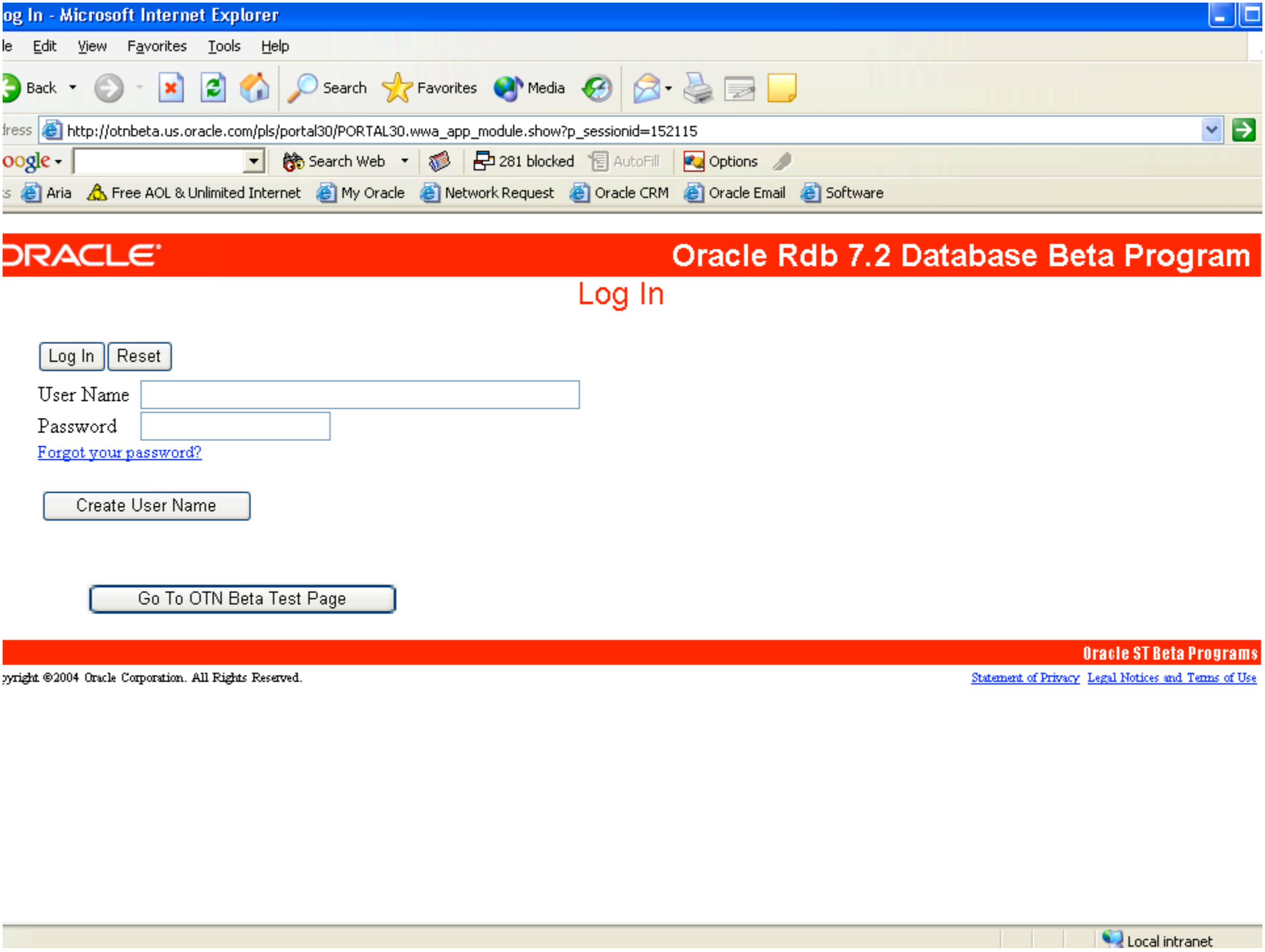
DBA
ISV
Small & Midsize Businesses
Getting Started
Oracle Rdb Beta Test Programs
Oracle Rdb 7.2 Beta Test Program
Oracle SQL/Services and OCI Services for Oracle Rdb version 7.1.6 Beta Test Program
Oracle Rdb Native JDBC Drivers version 7.1.3 Beta Test Program
Beta Program Problem Reporting
Oracle Rdb 7.2 Beta Test Program
Oracle is pleased to announce the opening of beta test registration for Rdb Version 7.2. The first kit available for test will be an advanced Developer's Kit version of Oracle Rdb 7.2 for OpenVMS Industry Standard 64 for HP Integrity Servers. This ADK allows Oracle Rdb-based applications to be ported to OpenVMS for Itanium® architecture-based HP Integrity servers and access Alpha-resident Rdb databases. Th ADK kit includes I64 native versions of:
SQL Module Language
SQLPRE for C, Cobol, Fortran, and Pascal
RDBPRE for Cobol, Fortran, and Basic
RDML Recompilers for C and Pascal
Rdb Remote Access
Oracle/CDD Repository Remote Access
This ADK does not support accessing native Itanium® databases. Full native Itanium® database testing will be available with Rdb Versio 7.2 beta1 (full kit) at the end of 2004.
Click here for the Oracle Rdb 7.2 Beta Test Program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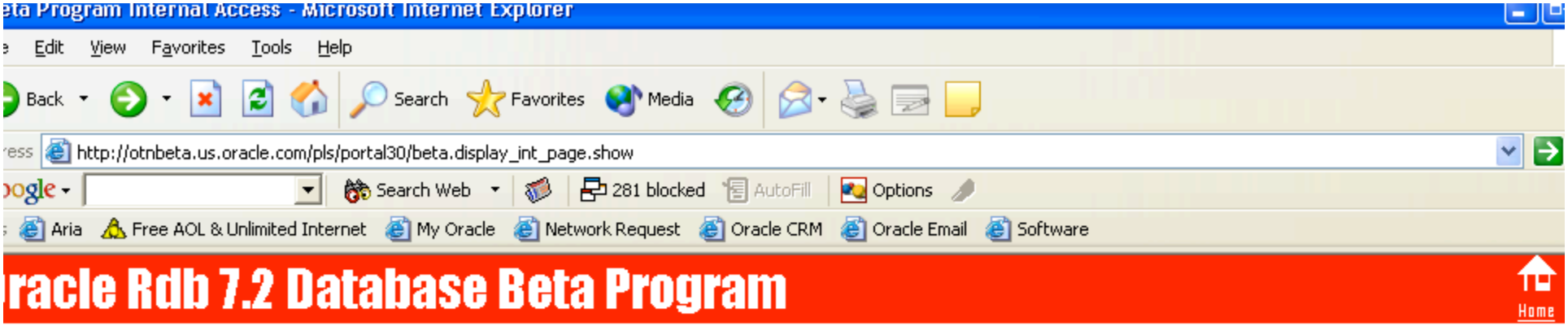

Change Password Log Of

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Program Schedule

Beta Test for Oracle Rdb 7.2 for HP OpenVMS Industry Standard 64 and OpenVMS Alpha

Oracle is pleased to announce the opening of beta test registration for Rdb Version 7.2. The first kit available for test will be an Advanced Developer's Kit version of Oracle Rdb 7.2 for OpenVMS Industry Standard 64 for HP Integrity Servers. This ADK allows Oracle Rdb-based applications to be ported to OpenVMS for Itanium® architecture-based HP Integrity Servers and access Alpha-resident Rdb databases. This ADK does *not* support accessing native Itanium® databases. Full native Itanium® database testing will be available with Rdb Version 7.2 beta1 (full kit) at the end of 2004.

Oracle CDD/Repository for OpenVMS 7.2 Beta

The Oracle CDD/Repository for OpenVMS 7.2 Beta Kit available here under "Software/Patches" was last updated 22-October-2004.

Oracle CODASYL DBMS 7.2 "Pre-Beta" Kit Is Now Available for Download

Oracle CODASYL DBMS 7.2 has been added the list of products available for download under the Oracle Rdb 7.2 Beta Test Program. This "pre-beta" kit, is a fully functional I64 ported version of Oracle CODASYL DBMS. It is being offered for "early adopters" who are interested in getting a jump start on the port of their DBMS applications to Itanium® architecture-based HP Integrity Servers. The Beta 1 version of Oracle CODASYL DBMS 7.2 is scheduled for release at the end of 2004.

Rdb 7.1.2

- Oracle Database Compatibility
  - Media Management API 2.0
  - Rdb Extension for Oracle Enterprise Manager 9i
  - New SQL Features
- Performance
  - Snapshots in Cache
  - 64 Bit Row Cache
  - Optimized Page Transfer
  - Log Recovery Server (LRS) enhancements for Hot Standby
  - Bit Map ‘OR’ and ‘Like’
  - Index Estimation (provides improved index estimations for both the Dynamic and Static Optimizer)
  - Sampled Selectivity (allows cardinality estimation in the Static Optimizer)
- Availability and Web
  - Rdb Native JDBC Drivers V1
- OpenVMS
  - 7.3-2 / Opal certified

Rdb 7.1.3

- Optimizer
  - Bitmap Scan Performance Enhancements
    - Bitmap Scan for OR Index Retrieval
    - Processing of Unique Keys and Non-ranked Indices
    - Enhanced Fast First Processing
  - Dynamic Optimizer FAST FIRST Shortcut Termination
  - Peephole Optimization For Hidden Key Retrieval
  - Query Execution Timeout
- SQL
  - New Prototype Qualifier for SQL Module Language
  - Dynamic SQL Enhancements
  - Enhancements to SQL SHOW Commands
- Management
  - RMU /UNLOAD /AFTER_JOURNAL Performance Enhancement
  - RMU RMU /BACKUP New /ALLOCATION_QUANTITY Qualifier

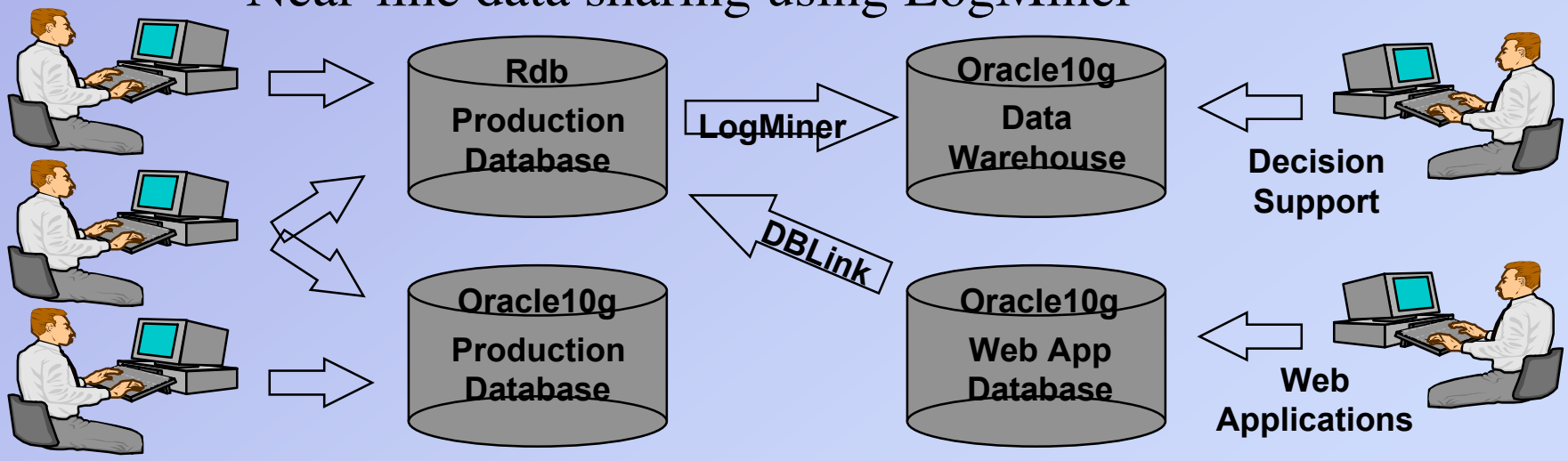
☒ And Other Features …

Other Features added in Rdb7

- Parallel back-up & load
- Patented duplicate key compression algorithm
- Byte-aligned bitmap compression
- Pseudo-ranked Btrees
- Asynch Prefetch of Btree Indices
- ALS recoverable asynchronous I/O
- Fast AIJ creation and extension
- File information cache for VLDBs
- Fast area creation and extension
- Null support for load/unload
- X/OPEN two phase commit
- Strict horizontal partitioning
- Nested stored procedures
- SQL stored functions
- Enhanced external function callouts/callbacks
- Windows-based management tools
- External procedure calls
- Support for 45 Oracle7 SQL functions
- Temporary Tables
- Drop table cascade
- Truncate table
- Default storage area
- Prevent statistics and cardinality updates
- Control transaction types
- RUJ location
- SET FLAGS statement
- Hold cursors
- SQL support for ROWID
- Enhanced Optimizer statistics
- Dynamic SQL performance improvements
- System table changes

Rdb & Oracle Servers: Coexistence

- Coexistence
  - Common application development w/ OCI Services for Rdb
    - Single applications possible today
  - Data sharing directly through DBLinks
  - Near-line data sharing using LogMiner



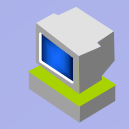
DECdtm XA Interface Project

- HP's DECdtm/XA Gateway means
  - DECdtm-compliant components participate with XA-compliant components
  - DECdtm becomes XA-compliant RM
- Rdb supports DECdtm 2PC so it can now participate in XA transactions
- Benefit: True distributed transactions that update multiple Rdb and Oracle databases.

Rdb JDBC Support

- Standard Oracle JDBC drivers
  - Require OCI translation via SQL*Net for Rdb
- The Rdb JDBC Native Thin Driver
  - 100% pure JAVA driver that communicates directly to the Rdb JDBC Thin Server via JAVA Sockets over TCP/IP.
- The Rdb JDBC Native SQL Driver
  - Connects directly to Rdb SQL via a native API. This driver requires an Rdb client installation, and therefore is Rdb-specific and not suitable for applets. The Rdb Native driver, written in a combination of Java and C, converts JDBC invocations to calls to SQLMOD modules

Oracle9i/10g Application Server



Web Caching Services

Communication Services

Presentation Services

Business Logic Services

Web Cache

Oracle HTTP Server

Oracle Wireless Services

Servlets/JSPs

XML/XSL

PL/SQL

PERL

Portal

Internet File System

Discoverer Viewer

Reports

Forms

Java Stored Procedures

EJBs

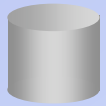
CORBA

BC4J

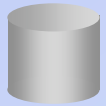
PL/SQL

System Services

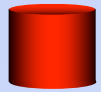
Enterprise Manager, Advanced Security, OID (client)



Oracle



Oracle Rdb



other DB

Why Data Replication is Important

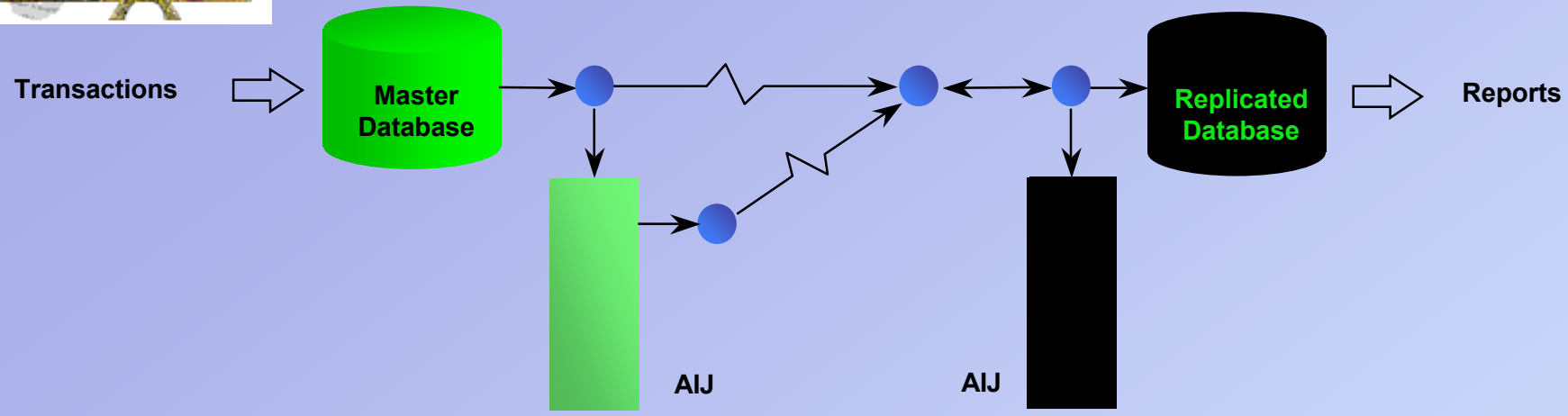
Information access is increasingly important; disks are increasingly cheap

- Ad hoc, reporting access interferes with OLTP
- Access to information needs to be continuous, but
  - Databases must sometimes be restructured
  - Databases must sometimes be isolated
  - Databases and systems sometimes fail
- Information must be protected from disaster
- Oracle Rdb is not always the right database management system

Replication: 6 Methods

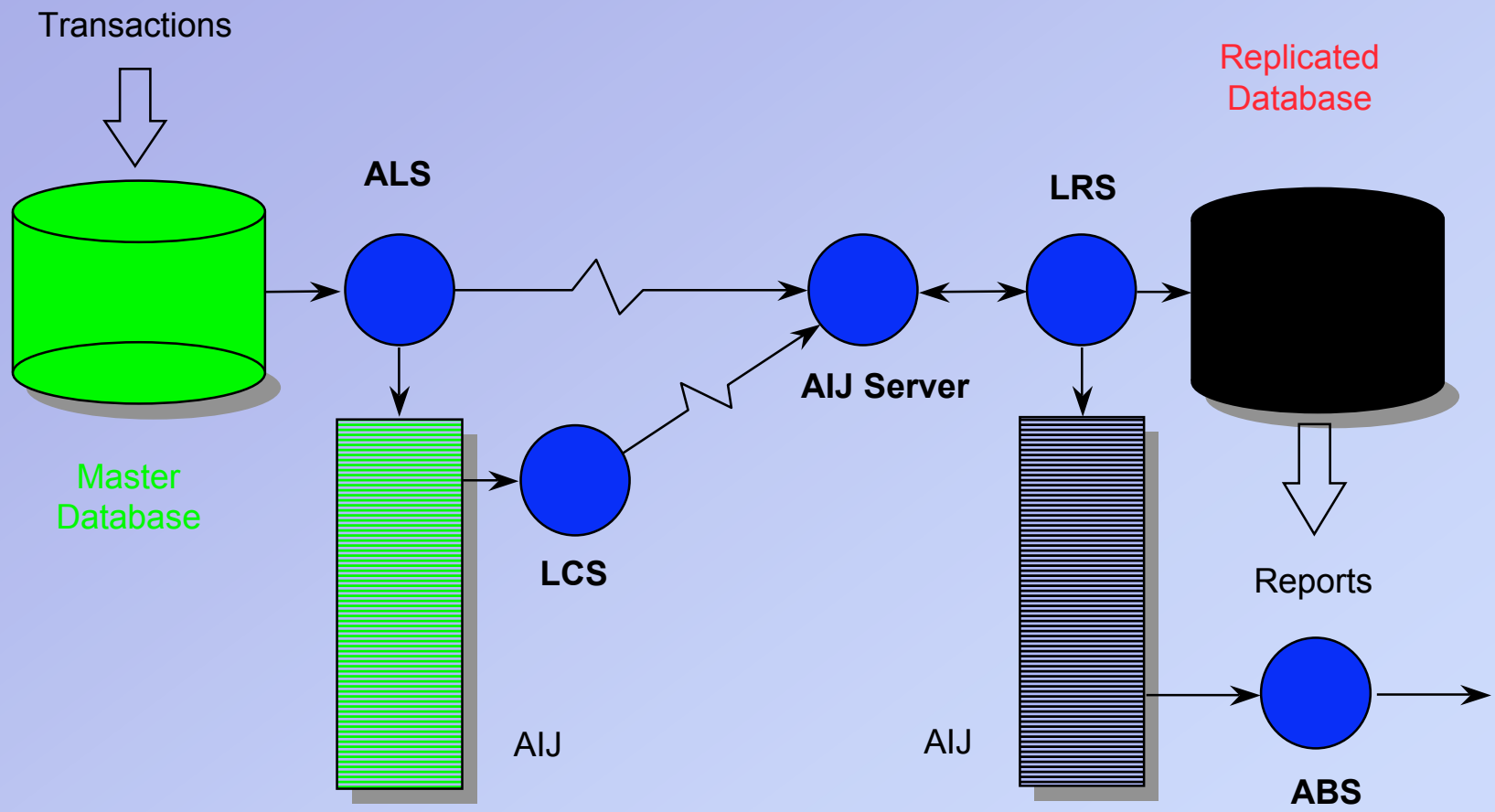
Replication Method	Type	Year
Journal Backup/Restore Method	Journal	~1980
Replication Option for Rdb	Table	~1985
Hot Standby	Journal	~1995
LogMiner/Loader	Journal	2000-2
Application Based	Table	
Shadowing/Mirroring	Disk	~1990

Hot Standby Option



- An exact copy of the primary database
- Transactionally consistent
- Geographically separate systems
- Application transparent
  - No application change
  - Database unchanged (AIJ Fast Commit Req'd)
- Negligible performance impact
- Stand-by database available for Read-Only access

Hot Standby Architecture



Hot Standby

- Excellent performance
  - Near zero cost on master database
  - Standby cost much lower than SQL
    - Physical address based replication
    - Asynchronous IO operations
- Exceedingly low network overhead
- Event, not schedule driven
- Transactional
- Extensively used

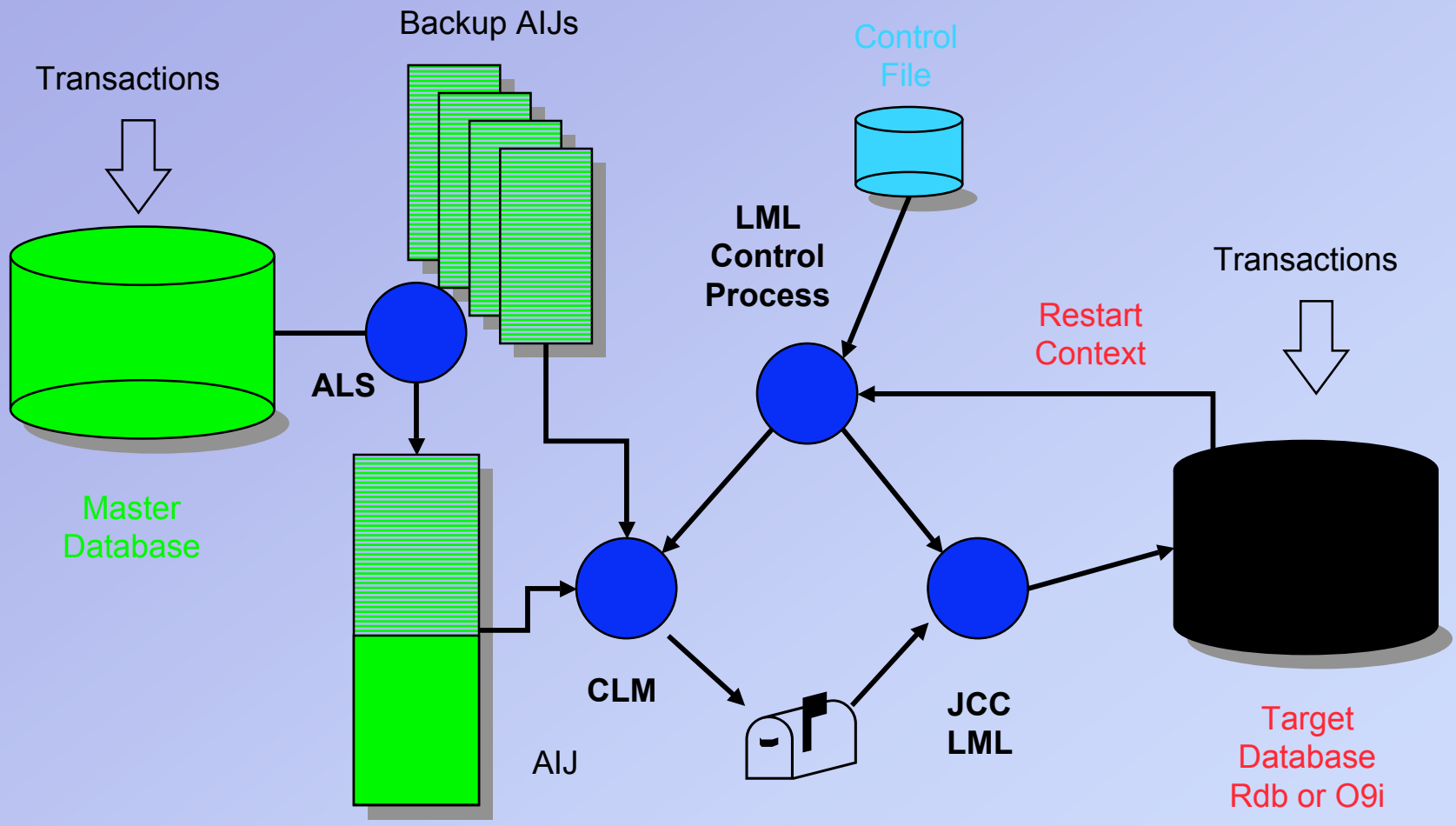
Hot Standby (Cont.)

- No real geographic limit
- Excellent recovery from network failure
- Configurable database consistency
- Also maintains standby copy of AIJ
- But,
  - Entire database is replicated
  - Standby database can be read but not written
    - Isolation level is read committed
  - Design center is failover, not reporting
  - Limited to single target database
  - Can’t back up standby database

LogMiner for Rdb

- Allows extraction of database changes as logged to the After-Image Journal
- Filter by Table, Date/Time, etc.
- Application transparent
- Blazingly fast!
  - 100,000 changes to each of 10 tables — 1,000,000 records — extracted in 30 seconds.
- Output to file, mailbox, pipe or a user written routine
- No performance impact on production system

Continuous LogMiner / JCC LogMiner Loader



CLM/LML

- Transactional
  - One or many source transactions = one target transaction
- Event driven or scheduled (Static LogMiner)
- Excellent performance on source database
  - Uses journals, not tables
  - Takes advantage of hardware disk cache; no database hot spot
- Excellent performance on target database
  - Multiple load threads now supported
- Multiple target databases supported

CLM/LML (Cont.)

- No Geographic Limit
- Low network overhead
- Write your own loader if you like
- Lots of flexibility
  - Logical data model
  - Physical implementation
  - Supports Rdb, Oracle, Tuxedo targets; more possible
  - Read/write access to target possible (be careful)

CLM/LML (Cont.)

- But,
  - More overhead than Hot Standby
  - More complex to set up than ROR
  - Not as extensively used, but…

Rdb Extension for Oracle Enterprise Manager 9i/10g

- Enterprise Manager is able to
  - Discover Rdb databases
  - Display Rdb Schema Objects
  - Detect events and react to them
  - Schedule jobs
- Production release available now.
- OEM 10g support under development for 2005.
- Benefit: Events and jobs from same console for both Oracle Rdb and Oracle Database.

Oracle Media Manager 2.0 Support

- Oracle Media Management version 2.0 API support begins in Rdb version 7.1.2.1
  - Legato Networker for Rdb now released for production use
  - StorServer ABC available now
  - HP ABS
  - OpenView Data Protector available now
- Parallel backup plan files supported
- Benefits:
  - Same tape library support for OpenVMS and Rdb backups
  - Tape library support for parallel backups

LEGATO NetWorker for OpenVMS Adds Support for Oracle Rdb/Oracle

- **June 30, 2004 - LEGATO announces availability of Oracle Rdb/Oracle modules for NetWorker for OpenVMS**
  - Industry First!
  - Beta Program oversubscribed
- **LEGATO Software only backup/recovery vendor to offer support for heterogeneous backups**
  - Key ISVs endorsing LEGATO solution – Cerner and IDX
  - Marquis customers implement LEGATO NetWorker solution
- **HP Endorses LEGATO NetWorker for OpenVMS**
  - HP OpenVMS Software Business Unit teams with LEGATO
  - HP Services offers migration service for customers moving from scripts, ABS/SLS and third party solutions to LEGATO NetWorker
- **Contacts/Information:**
  - HP Services – Denise Schorsch - denise.schorsch@legato.com
  - Product Information/Success Stories: www.legato.com

Native 64-bit Row Cache

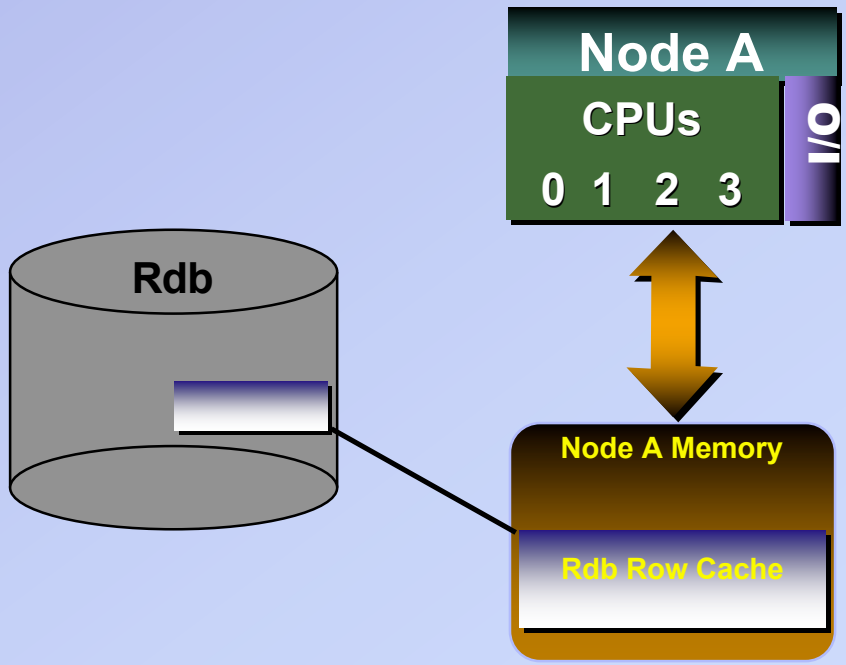
- Replace existing VLM/SSB techniques
- Improved performance
- Vastly larger caches viable

Rdb 7.1.2 + VMS V7.3-2 + GS1280 = Performance

- Resident Large Caches
  - >1,000 million database rows
  - >12 million index nodes
  - > 32 processor GS 1280 with 256 GB Memory
- 1.8 Million Transactions per Minute
- Details in “Native 64 Bit Virtual Addressing For Oracle Rdb Caches Capability and Performance” white paper – OpenVMS Technical Journal

Row Cache

- Dramatically improves read and write performance by servicing requests in memory
- Improves write performance by eliminating Page Lock conflicts



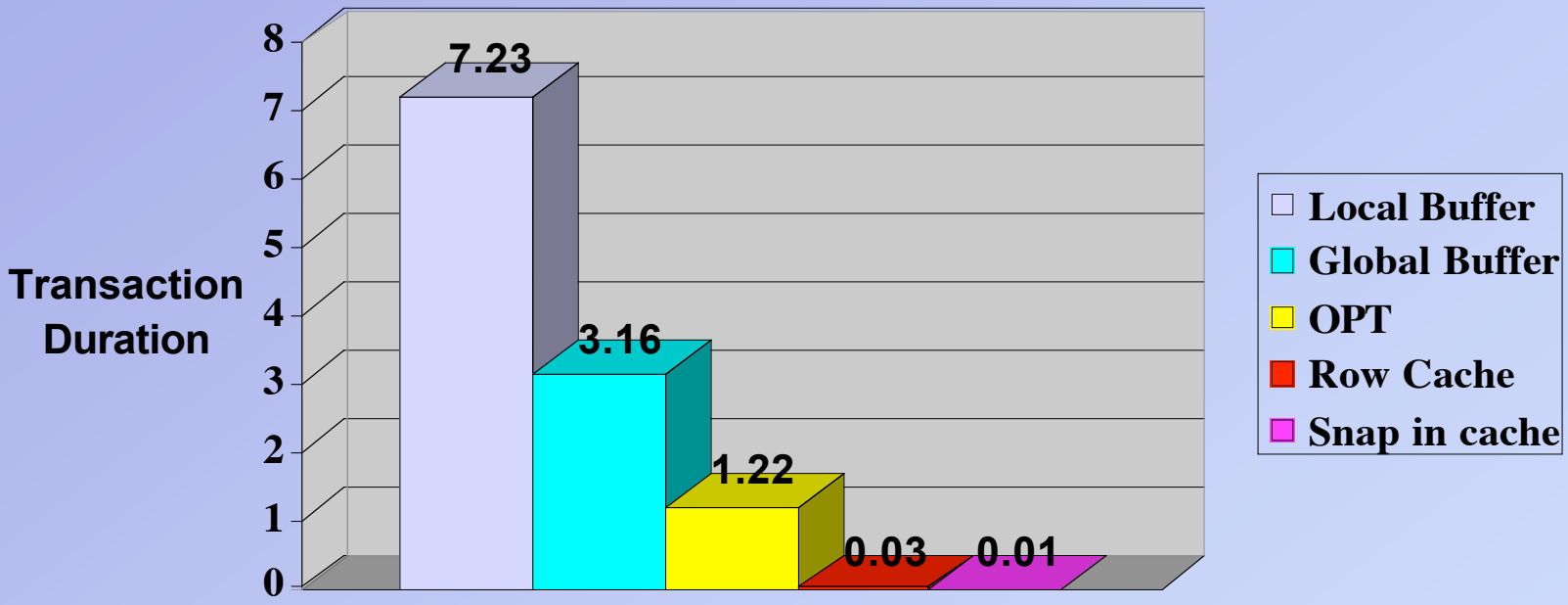
Snapshots in Row Cache

- Store snapshot copy of row in cache
  - Limited snapshot “life time”
- Memory access faster than disk access
  - Eliminate page locking & I/O
- Quickly write & read
  - No need to write snapshot page
  - No need to update live page
  - Search chain in memory

Snaphots In Row Cache

- Read & modify records from cache
- Maintain record snapshot in cache
- Avoid IO to database and page locks
- Should improve application performance

Results: Transaction Duration



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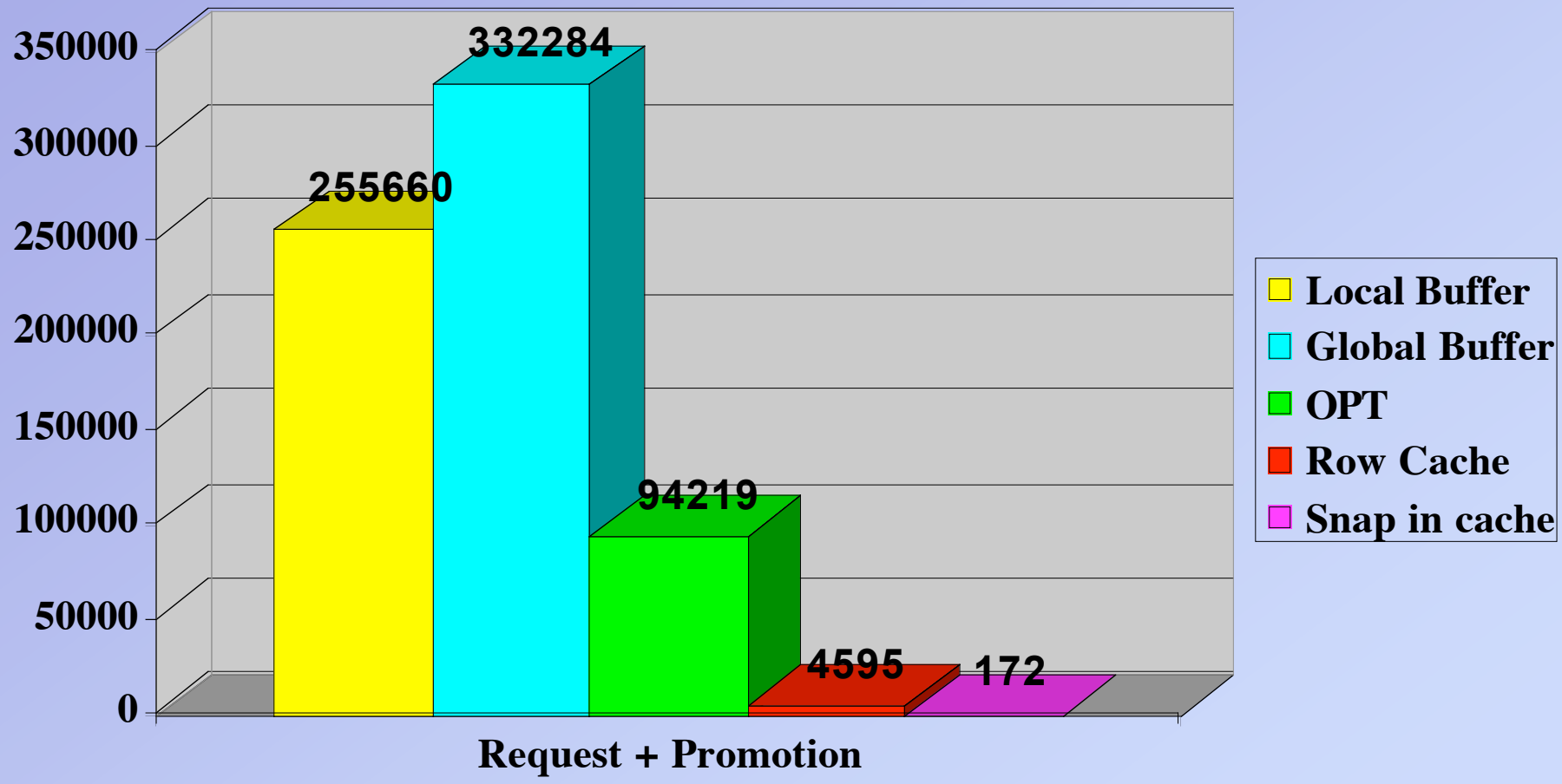

Oracle Rdb Roadmap

Development Stream	Q1 CY05	Q2 CY05	Q3 CY05	Q4 CY05	Q1 CY06	Q2 CY06	Q3 CY06	Q4 CY06
Rdb 7.0 VAX & Alpha	7.0.8 Maintenance Release + VMS 8.2	7.0.8.1 Maintenance Release		Maintenance Release		Maintenance Release		Maintenance Release
Rdb 7.1 Alpha	7.1.4 Maintenance Release + VMS 8.2		7.1.4.1 Maintenance Release		Maintenance Release		Maintenance Release	
Rdb 7.2 IPF & Alpha	Beta 1	Beta 2	Beta 3	V7.2 Production Release	V7.2.0.1 Maintenance Release	V7.2.1.0 Feature Release	V7.2.1.1 Maintenance Release	V7.2.1.2 Maintenance Release

Oracle Rdb on OpenVMS I64 – Current Status

- Oracle Rdb Running Native on HP Integrity Servers
  - Most Nightly and Weekly regression tests running, >85% successful
  - Some field test sites have begun using the system natively
- Oracle CODASYL DBMS Running Native on HP Integrity Servers
  - Has been added to the field test program
  - Close to parity with existing Alpha version
- Oracle CDD/Plus Running Native on HP Integrity Servers
  - Has been added to the field test program
  - Currently being used for ACMS regression testing by EDS
  - Heavy use by some field test sites
- Remaining Products under development
  - SQL Services, OCI Services, ROR, Oracle Trace, Rdb Native JDBC drivers

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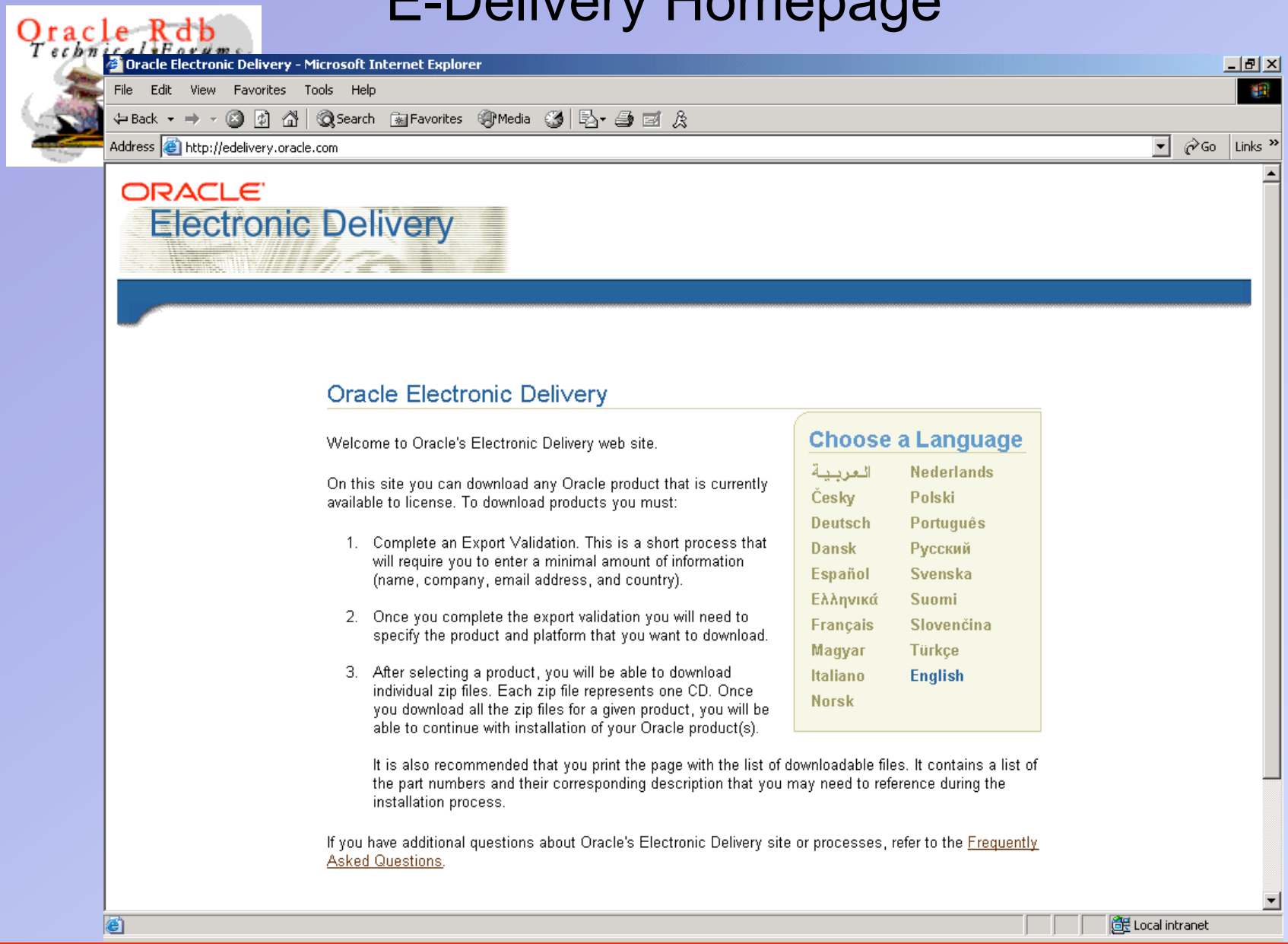

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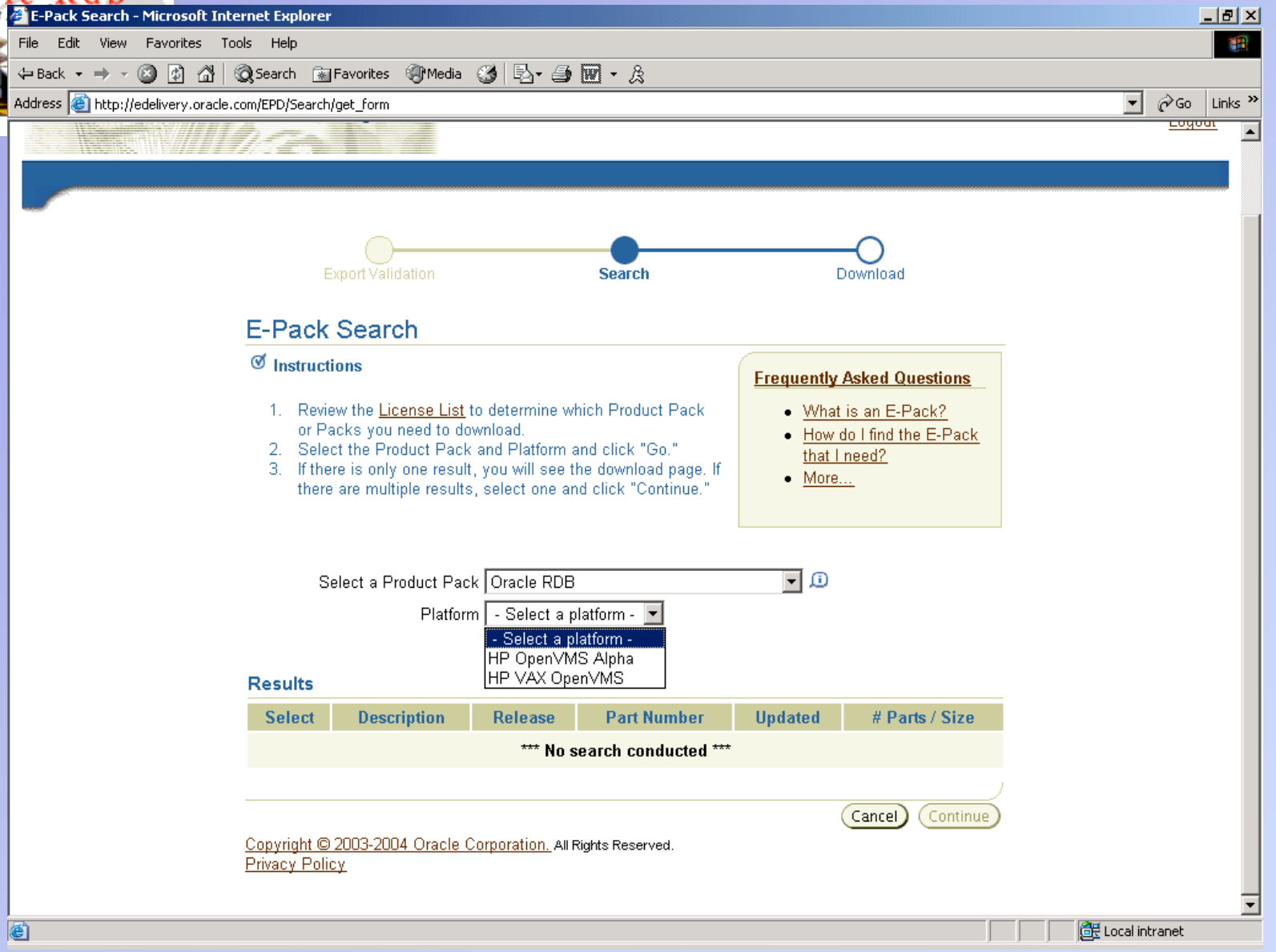

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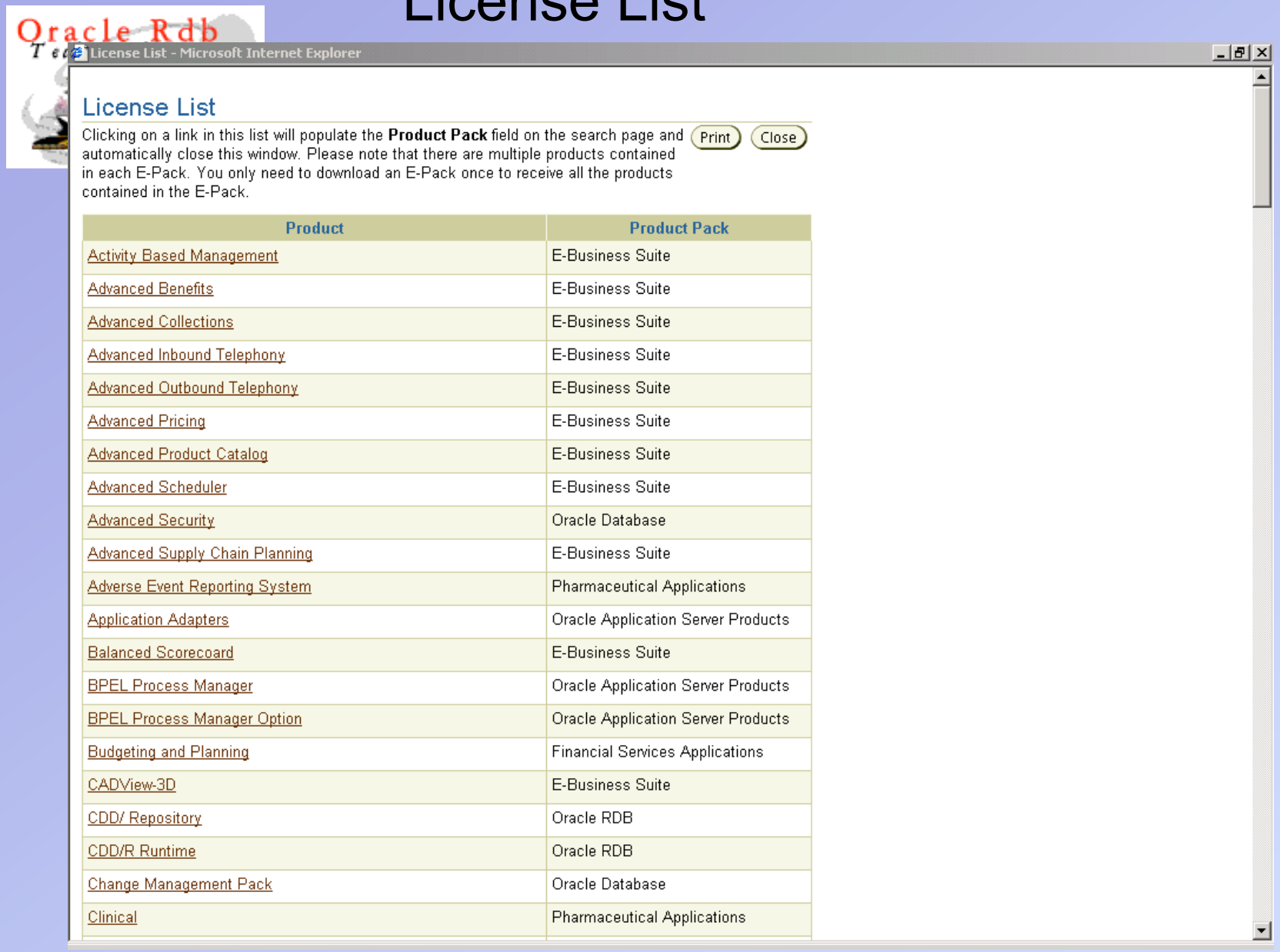

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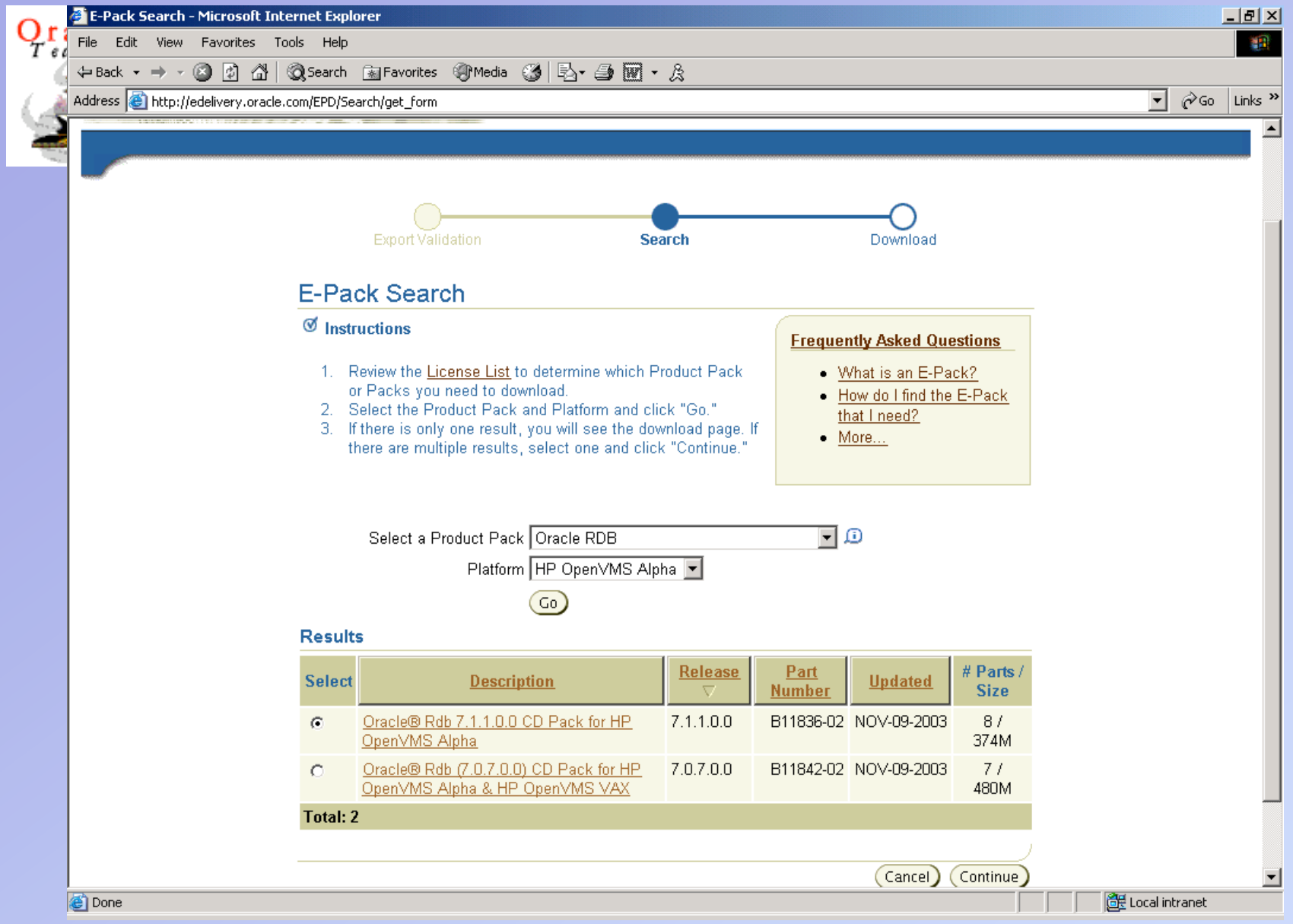
Clinical	Pharmaceutical Applications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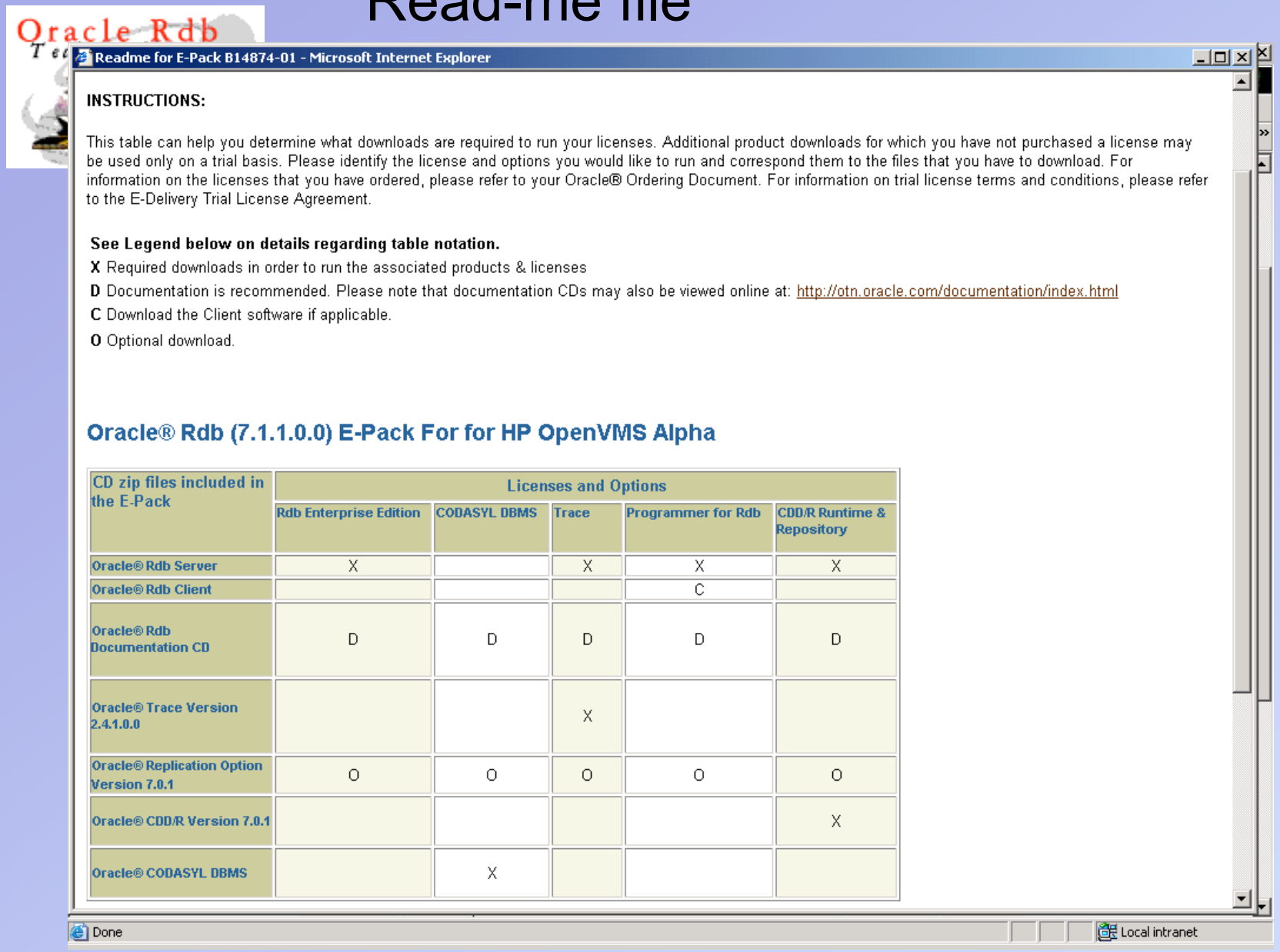

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Oracle® Rdb Documentation CD	D	D	D	D	D
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Summary

- After more then 10 years at Oracle, Rdb development continues because the Rdb business is healthy and valuable.
- Cooperation between the Oracle and HP development teams means better performance and manageability for you.
- Development strategy maximizes the value of your Rdb investment.
  - Oracle development tools and middleware
  - Oracle management tools and API's
  - Oracle Database for reporting and data warehouses