

# Migrations to Linux Panel

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# Panel Members

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# Agenda

- Linux Migration Utility
- Migrating Oracle Applications to Linux
- Migrating Oracle Applications Database to Linux
- Case Study: Cymer's Linux Migration
- **Q & A**

# Linux Platform Migration Utility

- Provides a way to quickly move an existing Oracle Applications
- Includes Technology Stack Upgrade to 11.5.10.2
- Retains exact application patch level therefore no APPL\_TOP/Database synchronization is necessary
- Retains many customizations

# Migrating Oracle Applications to Linux

## MetaLink Note 238276.1

- Easy step-by-step process for migrating to Linux
- Overview of the migration process
  - Apply the latest AD patch (5161680 – AD.I.5)
  - Generate and upload the manifest
  - Create the target APPL\_TOP
  - Clone the Application Context File
  - Install the Middle Tier Technology Stack
  - Run Autoconfig to create environment files

# Migrating Oracle Applications to Linux

## MetaLink Note 238276.1

- Overview of the migration process
  - Apply the customer-specific update patch
  - Review Technology Stack patch level and update if necessary
  - Download and apply the Tech stack interoperability patch (4139957)
  - Regenerate the file system objects
  - Run Autoconfig

# Migrating Database

- Assumption #1: If you are migrating at this point in time, you intend to end up on 10.2.
- If the RDBMS version you are leaving is supported on the Linux system, install it.
  - Save the upgrade for the faster system
- 9i: Metalink Note 230627.1
- 10g: Metalink Note 331221.1
- 10gR2: Metalink Note 362205.1

# High Level Overview

- Prep the Source
  - Apply appropriate patches
  - Generate script to create the target
  - Preserve the Advanced Queue Settings
- Prep the Target
  - Create the ORACLE\_HOME
  - Create the Instance
    - Multiple Pieces, Follow the Note
  - Back it Up



# High Level Overview

- Exp the source
  - This will probably take hours and be large, consider using named pipes
- Imp the target
  - 10g and 10gR2 use expdp/impdp, so create dictionary dmpdir
  - Imp the dumpfile
- Configure the target
  - Advanced Queues
  - Post-import steps
  - Compile invalids and maintain applications database objects

## Cymer's Linux Migration Experience

- **Cymer Overview**
- Semiconductor Capital Equipment Manufacturer
- Core product line of Deep Ultraviolet (DUV) laser equipment
- 800 Employees Worldwide
- \$400 million annual revenue
- 12 locations worldwide
- Single Oracle E-Business Suite instance
- All modules except CRM

## Cymer's Linux Migration Experience

- Linux Hardware
- DB/Conc – IBM 445
  - 4 CPU 3Ghz Xeon
  - 8 GB RAM
  - Suse 8 Linux 2.4.21-304-smp
- Apps – IBM445
  - 8 CPU 3Ghz Xeon
  - 8GB RAM
  - Suse 8 Linux 2.4.21-304-smp

## Cymer's Linux Migration Experience

- Linux Migration Overview
- HPUX hardware was aging, fast approaching obsolescence
- IT determined through year long study that replacement of our Oracle server hardware is most cost effective on Intel based IBM hardware running an "open" version of Unix – Linux
- Positions hardware base for cheaper upgradeability
- Reduces support services costs.
- Runs Oracle Apps on Oracle's preferred operating system platform.
- May provide significant speed improvements in some aspects of the application.

## Cymer's Linux Migration Experience

- Linux Migration Lessons Learned
- New hardware made transition easier
- Network attached storage decreased migration downtime and improved cloning/testing processes
- Actual source code for most of Oracle Applications is an exact copy of our HP/UX code – It's Not An Upgrade !
- Cost savings realized in cheaper hardware and will continue to be cheaper in the future
- Performance increased

# Q & A

# Thank You!

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