



# RDB to Oracle Update



# Why are we changing to Oracle?

- 10 years ago, RDB was a good, secure database which came bundled with our VMS hardware
- RDB was widely used in higher education
- Then, RDB was purchased by Oracle
- RDB customer base began to diminish
- Integration of other vendor software with RDB was becoming increasingly difficult
- MnSCU met with Oracle to determine roadmap for RDB and were advised to move off RDB as quickly as possible
- This put MnSCU in a very vulnerable position not only for database support, but we also began to see a shortage of RDB resources
- The decision was made to migrate to Oracle





# What is involved in this project?

## Task 1: Consolidating 37 RDB databases into 1 Oracle database

- There is an ever growing amount of data, both in volume and type
- As institutions do more consortium activities and share students it's vital we have one easy to support data base
- Approximately ~14,000 shared students
- Separate databases make central reporting difficult
- The database design is over 10 years old and needs updating for quality and efficiency



## Task 2: Migrate ISRS Application off RDB

- Oracle Corporation bought RDB as the MNSCU system was being developed, however there is uncertainty as to the long-range goals of Oracle Corporation or the future of the OpenVMS customer base
- RDB is only for the OpenVMS platform



# What is involved in this project?

## Task 3: Upgrade Uniface 8 in RDB and Oracle

- Required for Campuses to move to Vista operating system
- Required for Oracle operating system version 10

## Task 4: Purge Prospect Data and Merge Student Data

- Need to present a “seamless” face to students and tie all their records together
- Makes it easier for students to make updates in one place
- Enables MnSCU to sync IDs across databases
- Enables future “Student Centric” services in the future
- Allows implementation of Identity and Access Management



# What is involved in this project?

Task 5: Robust testing of ISRS Application in the Oracle environment and performance of single database vs. multiple databases

- Reduces risk to campuses of performance issues
- Reduces risk of application not functioning as expected





# Why is it taking so long?

- Before initial cutover in February 2008 was to occur, performance testing with the application and server performance was unacceptable so we needed to stop, rethink the metrics we would need to move forward, and execute a new plan taking performance and application testing to a higher level
- A quality assurance team was staffed and tools put in place to perform more rigorous performance testing
- The secondary data center infrastructure was configured as a pure Oracle performance test bed
- An extremely detailed application test plan was developed and teams were assembled for four concentrated testing sessions to enable us to show metrics on application readiness
- The Uniface conversion from U7-U8 was more difficult than anticipated
- Key resources often get diverted to operations/maintenance







# What is next?

- The application has been certified ready to begin rigorous performance testing
- Final bug clean up is progressing
- Migration / cutover practice sessions have begun
- Once a final estimate of ISRS downtime is projected, ITS leadership will work with campuses to determine best time for cutover

**QUESTION: Are we getting this project information to the right people on your campuses?**



# ISRS RDB to Oracle Conversion

- **Overall Status** 
  - Project 90% completed
  - Estimated Cutover date: after 1/16/08
- **Budget** 
  - Over 100% encumbered
  - Cost overages have come in the area of labor/services
  - Status tracking has been more around resource availability than budget as no further dollars were allocated from the EIC
- **Schedule** 
  - The project is not on schedule based on the original cutover date of 2/08
  - Schedule will remain RED until ITS leadership can work with campuses to select the least risky time to perform the cutover
  - Current activities toward FY Q3 cutover are on schedule
- **Resource issues** 
  - Most impact is felt when project resources are pulled away from project work for operations/maintenance