

# Grid Computing, ORACLE and CERN

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# Overview

- Goal:
  - Present mutual benefits of Oracle -CERN partnership
- Agenda:
  - Oracle-CERN partnership model
  - Benefits & Results
  - Future: the Grid

# A bit of history

- 1982: Oracle introduced at CERN
- 1990's:
  - more OO approach for Physics applications
  - commodity HW (Linux) + Oracle 9iRAC
- Today and Future: GRID and the LHC Computing Data Challenge

# Partnership Model

- Close interactions on single projects/software solutions
- Regular meetings
- Visits
- Presentations of different technologies and solutions
- A single interface

# Oracle Benefits

- Software enhancements
- Software testing
- Creating new Oracle experts (OCP)
- Media exposure

# CERN Benefits

- Benefit from a direct contact with developers and support
- Suggest and eventually introduce new features in new releases
- GRID and Openlab

# LCG and Oracle

- Oracle 9iAS for GRID Middleware
- Shared Oracle DB for LHC Experiment
- General GRID infrastructure on 9iRAC
- New Oracle GRID technologies being tested

# Openlab

- Test GRID technologies at CERN
- Oracle Fellows
- Results:
  - Oracle DataGuard for GRID RLS
  - Oracle Streams for live upgrades
- Collaboration with other companies



# Summary

- Close interactions between Oracle and CERN led to a successful partnership
- Oracle and CERN mutually benefit from their partnership