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Data Guard for Hardware migration

3D Workshop,
CERN,
26-27 November 2009

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- **It was my first experience with data guard:**
  - **I tested the migration procedure on a single instance DB**

- **I used it to migrate two systems:**
  - ATLAS 3D
  - LHCb 3D

- **The first migration is were the real experience was done**

- **The second migration was smooth with no problems**

- **The migration was from a 32bit to 64bit system**
- **The instruction on the CERN wiki page were clear and simple with few exceptions**
- **Standby database was installed and active few days before switchover**

- ## At switchover I had two problems:
  - ### Didn't reboot the standby database after switchover
  - ### Didn't recompile Oracle object in standby DB
- ## Got scared at the execution of these commands because they took few minutes to complete and I thought something was going wrong:
  - ### ALTER DATABASE COMMIT TO SWITCHOVER TO PHYSICAL STANDBY WITH SESSION SHUTDOWN;
  - ### ALTER DATABASE COMMIT TO SWITCHOVER TO PRIMARY;

- **I Strongly recommend to use data guard for database migration**
- **If you don't have any experience with data guard try to get familiar with it testing the migration procedure on a testing environment**
- **It is straightforward and quick**
- **It requires just few hours of downtime:**
  - **the second migration did take less than 1.5 hours**