

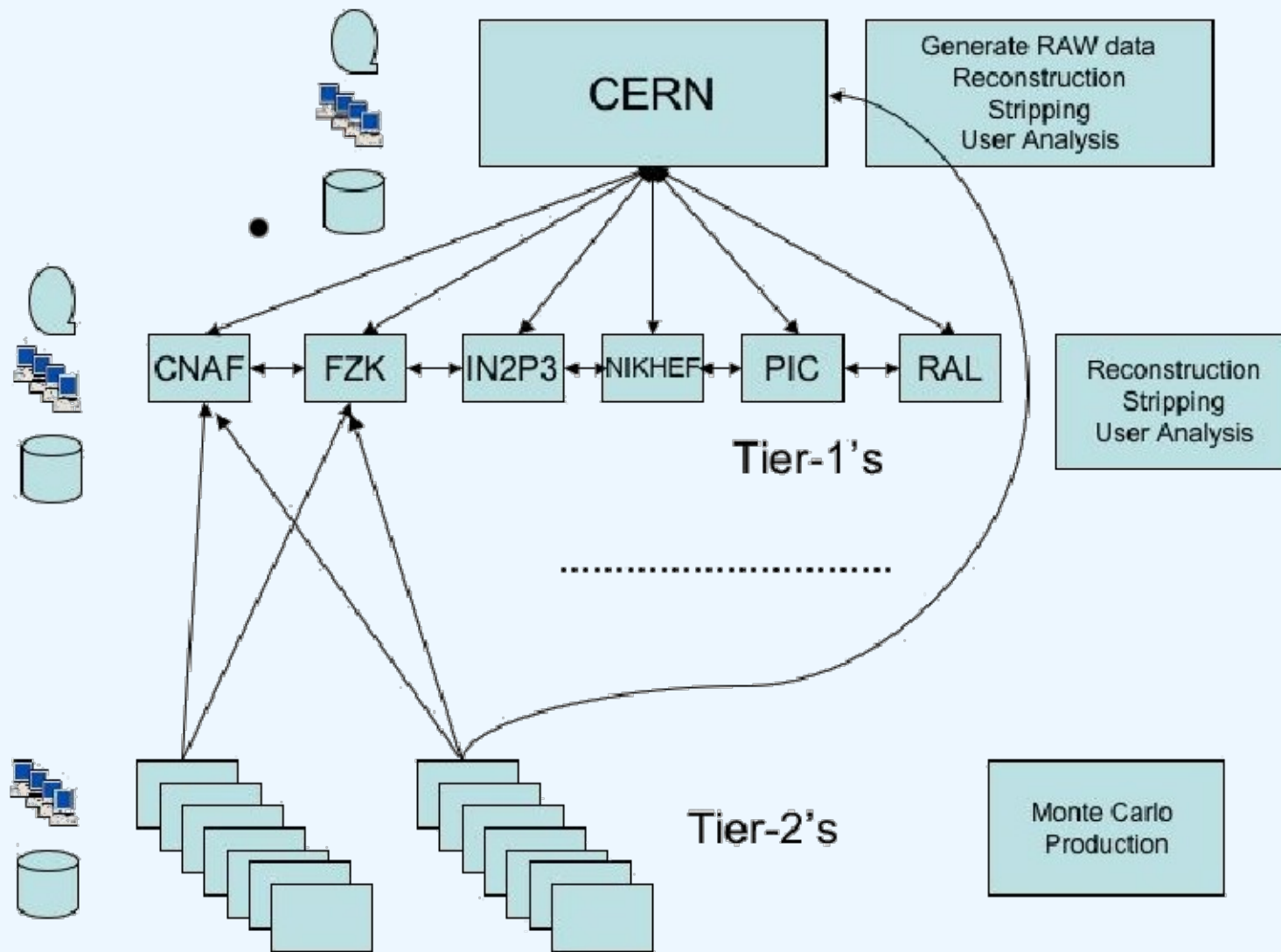
LCG 3D Workshop
13-14 September 2006

LHCb COOL Streaming Tests

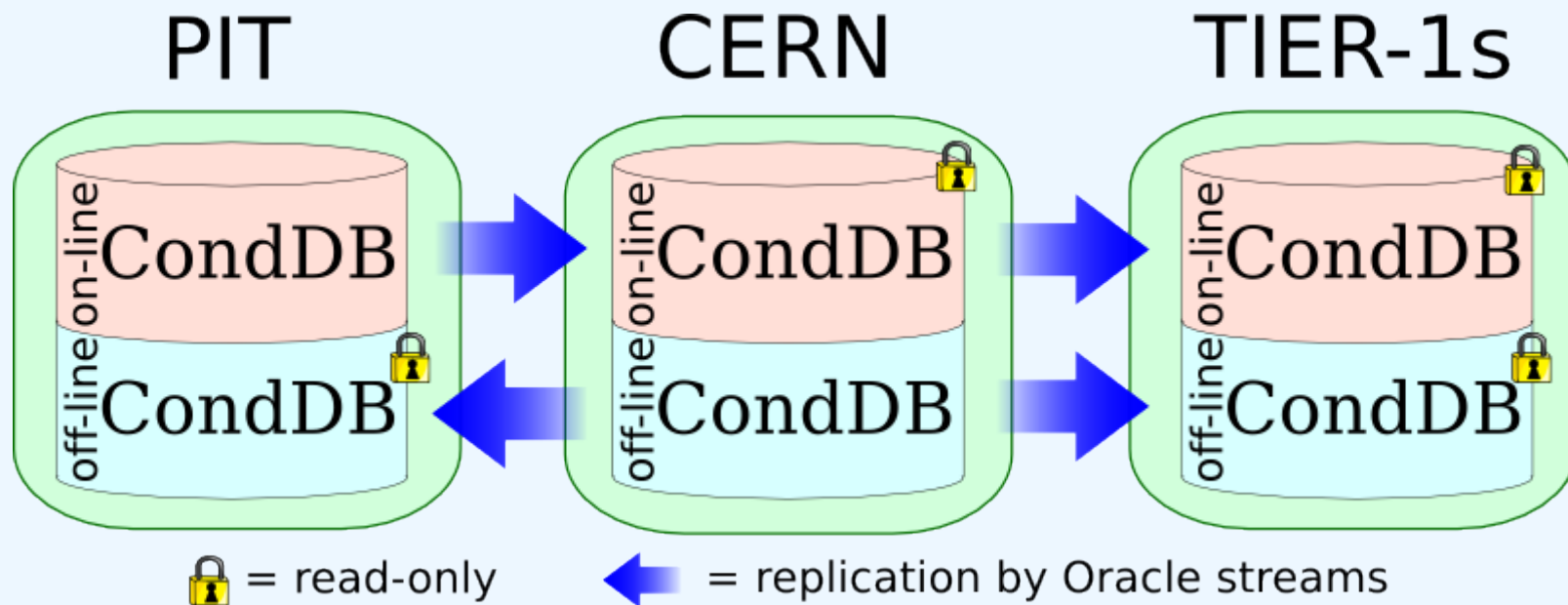
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- Computing model
- Deployment strategy
- Test plan
- Achievements and status
- Conclusions

Computing Model



Deployment Strategy



- Prepare the Master CondDB
- Replicate to 3 Tier-1s
- Access the replicas from the GRID
- Set up (fake) PIT Oracle server
- Replicate from PIT to CERN and from CERN to Tier-1s
- Add the missing Tier-1s
- Full scale test on the GRID

Achievements and Status (1)

- Started with RAL and GridKa
 - Creation of the schema (~10k tables)
 - 6 hour delay at RAL, memory problems at GridKa
 - Privileges replication
 - long delay few hours
- GRID access
 - Only CERN tested (no DB replica catalog)

Achievements and Status (2)

- Added IN2P3
 - Successful export of the schema to a new slave
- Stress Test
 - 100 insertions/s distributed over 200 folders
- (fake) PIT Oracle server
 - Under preparation
 - Schema not yet imported

- The replication seems efficient enough for normal usage
- Slow for management tasks, but is not an issue
- Still to do
 - Stress test on the GRID (~200 jobs/site)
 - Using fully featured CORAL library
 - 2 steps replication: PIT \Leftrightarrow CERN \Rightarrow Tier-1s
 - Replication to all sites (6 Tier-1s)