Veridata for Data Consistency in WLCG

Anti Askos
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The Project Challenge

› IT-DB provides replication services between CERN and specific Tier-1 data centers worldwide as part of the WLCG project

› Checking data consistency is a challenging task

› Oracle GoldenGate Veridata seems a promising solution
GoldenGate Veridata

- Data comparison tool
- High performance
- Cross platform
- Checking between divergent databases
- Repair out-of-sync data
GoldenGate Veridata

Welcome, user!

Chart

Finished Jobs for last 3 day(s)

View and monitor the status of your GoldenGate Veridata jobs.

Options Settings

User Preferences

Executes Jobs

Shortcut

Log out

About
Evaluation Process

Test Process

- Mock data generated
- Replicated from Cern to Tier-1s
- Check data consistency with Oracle GoldenGate Veridata
Evaluation Process

› Real Production Data
  ▪ Atlas data through Tier-1s
  ▪ Check the consistency with Oracle GoldenGate Veridata

› More than 1.23 TB of data checked

› More than 21,000 tables were processed
Conclusions

› Powerful tool for data comparison and repair

› Trustworthy for the WLCG’s rapidly adjusted environment

› A tool IT-DB needs
THANK YOU!