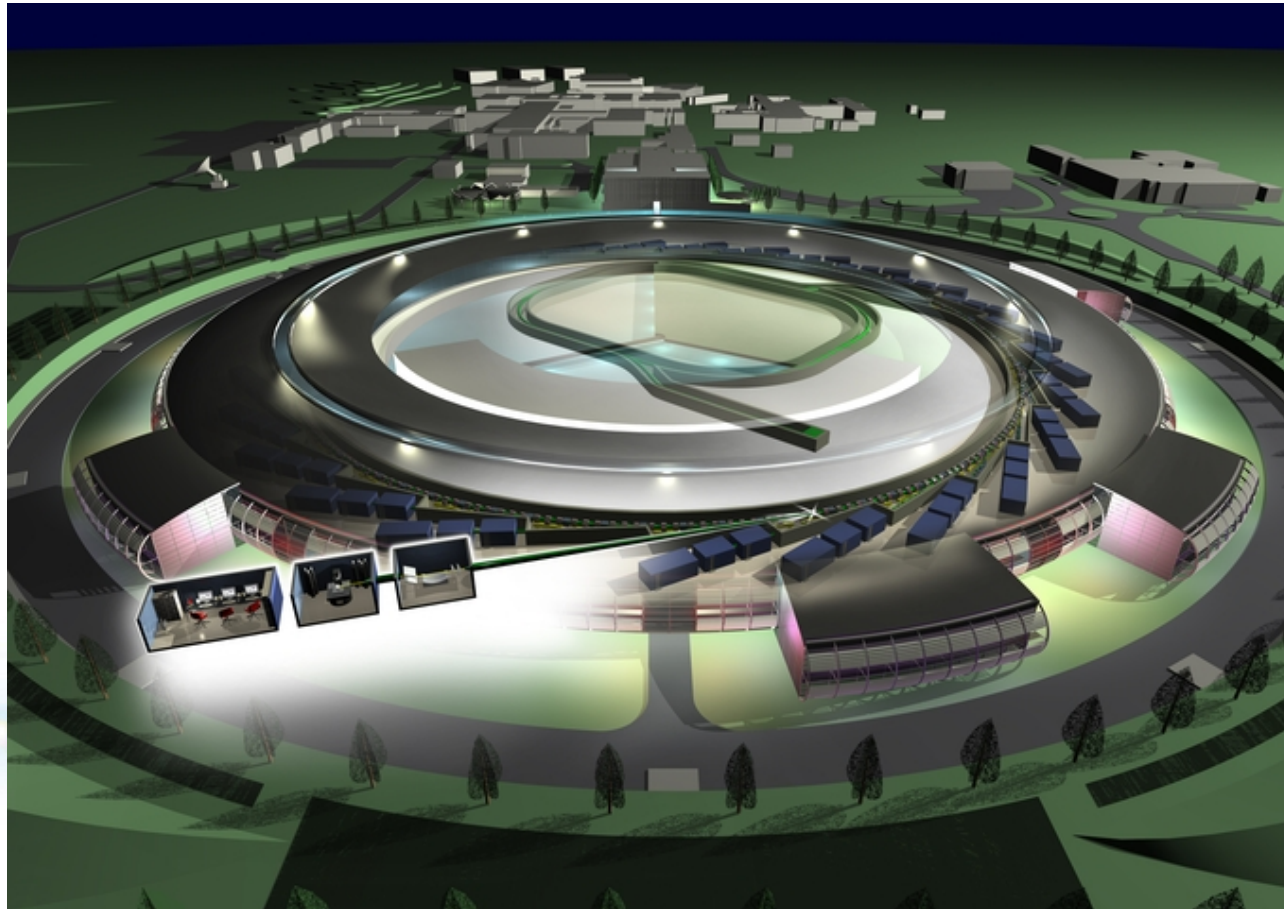


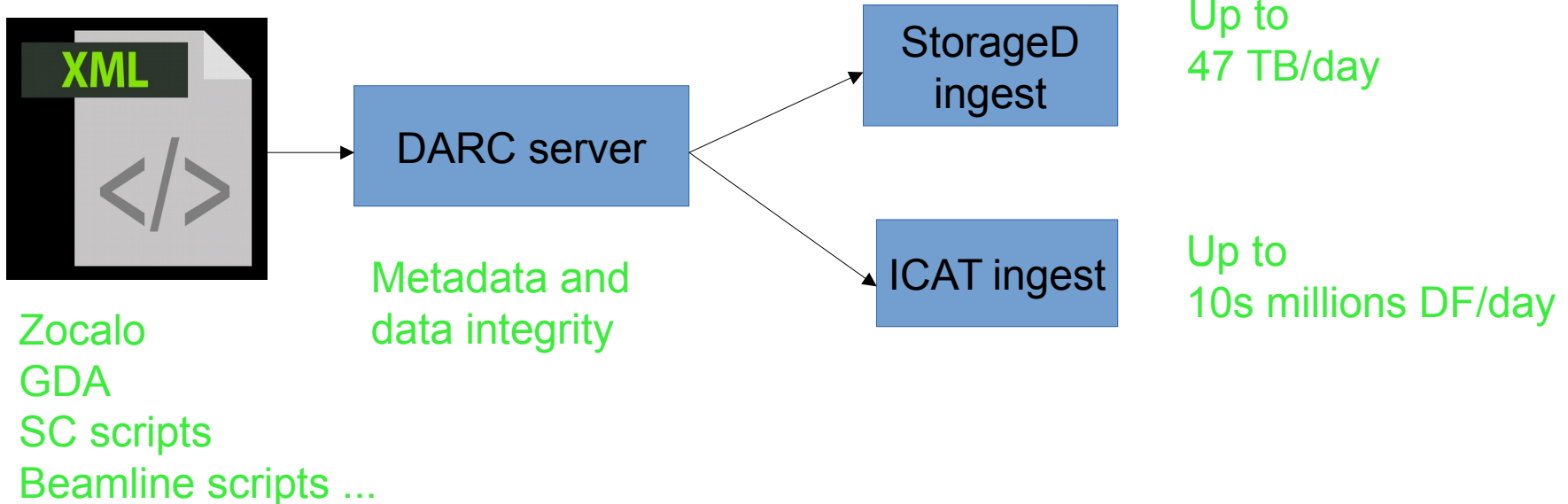
DLS update report



Current status

- ICAT v4.8 with Glassfish (2 servers)
- IDS v1.8.0 with Glassfish (for https and globus servers)
- TopCat v2.3.2 with Payara (move recently due to DoS Glassfish vulnerabilities).
- Instrument scientist can access their data (sync between Ldap and ICAT Users and InstrumentScientists tables, rules changed).
- Good progress with the integration of the various ICAT components → increase in the number of downloads
- Improve production environment: remove unnecessary legacy hardware and software → reduced maintainability effort
- Pre-prod environment available for system integration or end-to-end testing.

Current status (cont.)



- DARC currently python scripts. Refactoring. Critical bug fixes & new features
- Define release procedure: Git (testing and master branch), rpm package, deployment with CFEngine.
- Unit and system integration tests. Unit test integrated into Jenkins.
- Ongoing: DARC server in Java using Apache Camel. Easy to integrate with both XML and Active MQ.
- ICAT ingest: automated system integration tests available in preprod environment.

Current status (cont.)

The screenshot shows the Jenkins web interface for the project 'darc-tests-testing'. The top navigation bar includes the Jenkins logo, a search box, the user 'dfq16044', and a 'log out' link. The breadcrumb trail is 'Jenkins > SciComputing > darc-tests-testing'. On the left sidebar, there are links for 'Back to Dashboard', 'Status', 'Changes', 'Workspace', 'Build Now', 'Configure', 'Rebuild Last', 'Favorite', and 'Job Config History'. The main content area is titled 'Project darc-tests-testing' and indicates it is owned by 'Silvia Da Graca Ramos'. It features several action buttons: 'edit description', 'Disable Project', 'Workspace', 'Recent Changes', and 'Latest Test Result (no failures)'. Below this is a 'Build History' section with a search box and a table of builds. The table shows five builds, all with a green status icon, indicating they were successful. The most recent build (#5) is from Nov 16, 2017, at 12:16 PM. At the bottom of the build history are links for 'RSS for all' and 'RSS for failures'. To the right of the build history is a 'Permalinks' section with four links: 'Last build (#5), 2 hr 49 min ago', 'Last stable build (#5), 2 hr 49 min ago', 'Last successful build (#5), 2 hr 49 min ago', and 'Last completed build (#5), 2 hr 49 min ago'. On the far right, there is a 'Test Result Trend' chart. The chart is a bar graph with a y-axis labeled 'count' ranging from 0 to 20 and an x-axis with labels #1 through #5. The chart area is currently empty, showing a solid light green background. Below the chart are links for '(just show failures)' and 'enlarge'.

Current issues

- TopCat: UI not intuitive for users.
 - Problem with large number of files,
 - users can't find their data,
 - cannot select a whole visit for low data rate beamlines,
 - search functionality need improvements.
- Problem with SQL queries.

Conclusion

Diamond **10 years** of operation
and **10 PB** of data on tape!