

GOCDB web services interfaces

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Current limitations

- Direct DB connection is fine as long as:
 - There is a central physical DB
 - This DB is available
 - The schema doesn't change
- Induced issues:
 - Client tools dependent on DB schema
 - Changes required on client side in failover situations

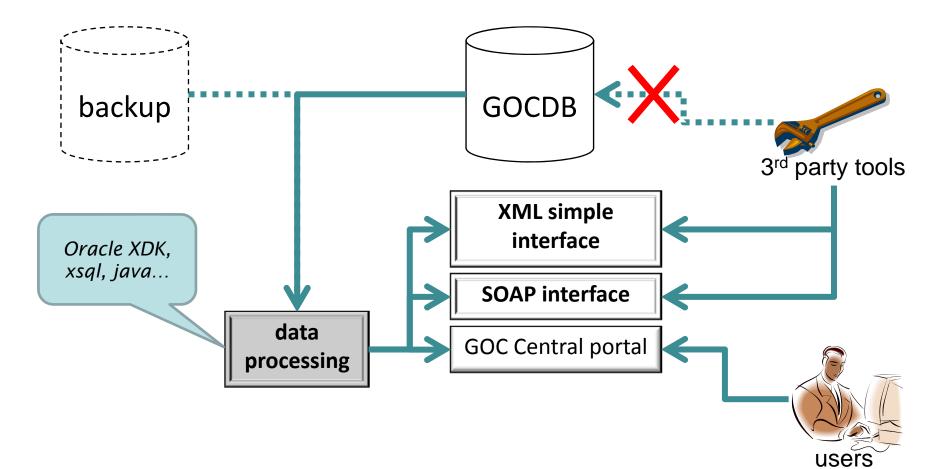


proposed evolutions

- Implement web services interfaces
- Document and provide support on the interfaces
- Progressively move away from direct DB connection



Proposed architecture





Data to expose

- 7 logical sets of information
 - Sites
 - Nodes
 - Services
 - Downtimes
 - Users and roles
 - Groups
 - Security information



Operations

- SOAP/http based on these 7 logical sets
 - One generic operation per set (massive data retrieval)
 - · e.g. "get_all_sites_info"
 - Refined operations with parameters
 - Reducing nb of rows: get_site_info('RAL-LCG2')
 - Reducing nb of columns: get_site_contact_point('all')
- Feeds
 - RSS, iCal...
 - To be studied and implemented later



Open questions

- SOAP / RESTfull do we need both?
- Are proposed operations sufficient?
- · What about failover for web services?
- What is the acceptable timeline to completely replace DB connection by WS?
- What about write operations?
- All this will need feedback and strong interactions with tool developers



For more details...

- Detailed plans for GOCDB web services
 - <u>http://www.grid-support.ac.uk/files/gocdb/02-GOCDB-Standardisation.doc</u>