# The CDB evolution - part 6

10/08 - Nikhef - Amsterdam

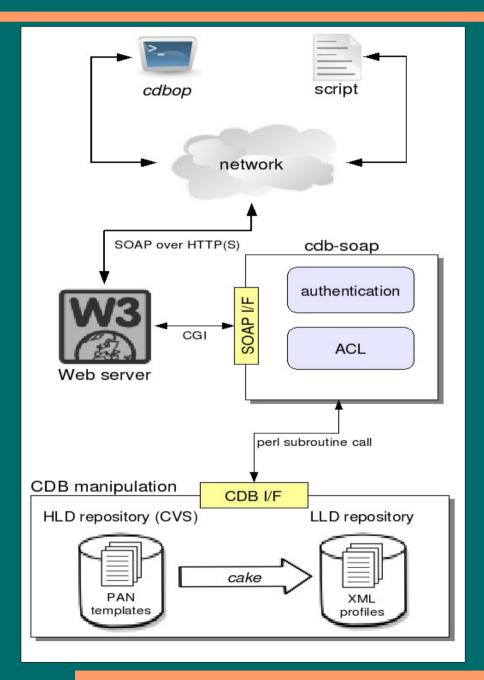
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## **Outline**

- CDB overview
- Tasks since last workshop @ CNAF
- □ What's new
- Wish list
- Boiling in the pot

#### CDB overview



#### Three-tier architecture

- SOAP client
  - cdbop interactive/batch shell
  - scripts
- SOAP middle-ware
  - Apache + cdb-soap CGI
  - stateless: each connection conveys one command
- CDB back-end
  - it's a library, not a server
  - templates compiled via cake
  - templates stored in CVS
  - stateful: partially transactional semantic through 'sessions'

## Tasks since last workshop @ UAM

- Completed
  - Visualization/navigation tool (not CDB-specific)
    - → cdb-tpl-view and pangraph ready for panc-8 (waiting for leaner logging options)
- Left behind
  - Fine-grained CDB locking with fair queuing. Long term
  - A common authentication service. Long term

### What's new

- □ cdb-cli (a.k.a. cdbop)
  - Only bug fixes
- □ cdb-soap
  - Authentication module now supports locking
  - Faster state management
  - Unit tests
- cdb
  - Faster state management
  - Multi-threaded dependency calculation
  - Other optimizations

### Wish list

- From last workshop, still pending:
  - Expose to clients some useful CVS features, like tagging, in a controlled manner [#9734, #17827]
  - Selective synchronization among multiple servers [#24687]
  - Suppress notifications for a given set of targets [#26433]
  - **+** Allow to [#20280]:
    - query the CVS backend
    - → log real user name and comment on commit
- Add ACLs/restrictions on the CDB configuration tree for "include" [#24983]: what's the status of the discussion about extending Panc?

## Boiling in the pot

#### Ideas

Waiting for leaner panc-8's logging options to allow a feasible template visualization service.

#### Issues

- Manpower
  - I can't dedicate any longer much time to development :-(
- Still problems with panc-8. I'm investigating...
- Scalability of dependency calculation:
  - Currently all profiles are scanned: complexity is O(#profiles)\*O(#modfied templates)\*O(#avg dependencies), e.g. at CERN ~100M operations for 10 templates touched.
  - Reverse dependency calculation + caching might be a solution.

