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Cool Tag Browser status and developments

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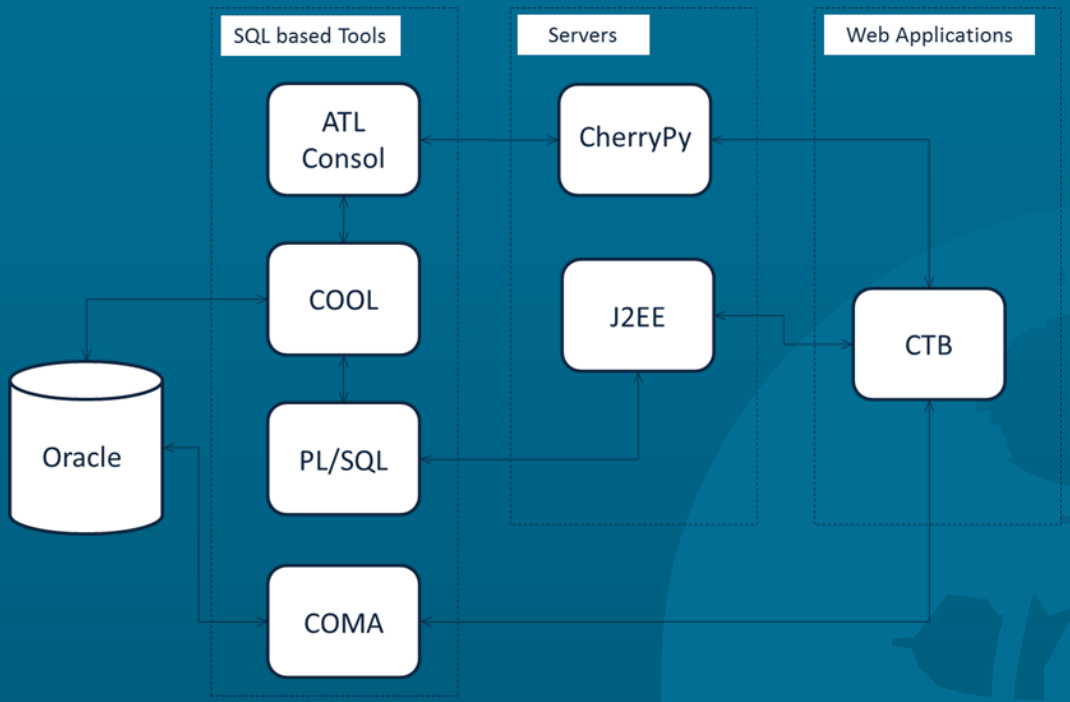
http://www.cadcam.ge

Basic Functionality

- Cool Tag Browser (CTB) is Python/Php/JavaScript based web read-only application for:
  1. Navigation through the COOL nodes
  2. COOL data retrieval and visualization
  3. Search
  4. IOV's statistics check
  5. Channels visualization
  6. Payload interpretation

Basic Sources



CherryPyCool – Python based RESTfull web service

{GET, PUT, POST HTTP} methods

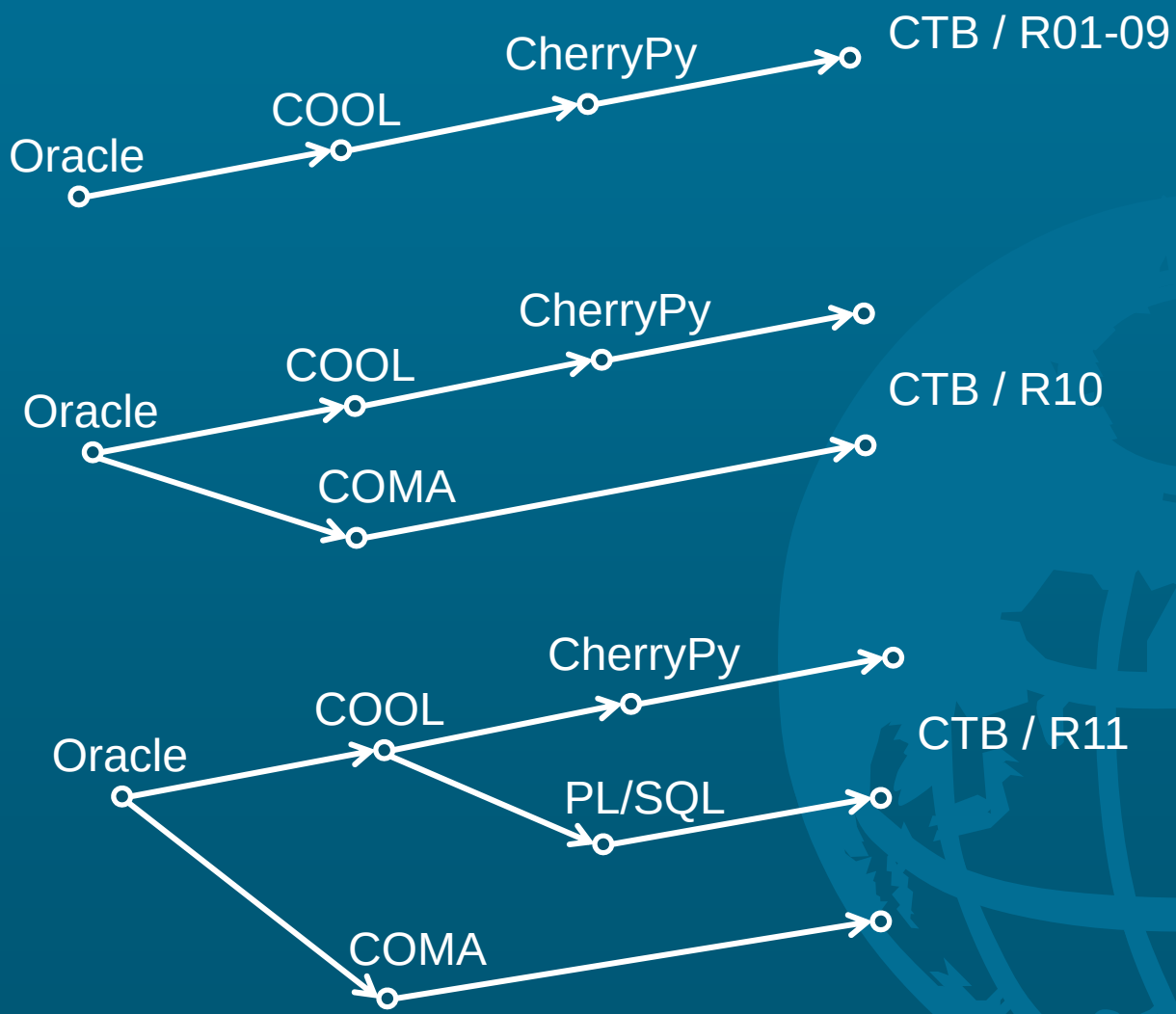
COMA– Daily updated subset of Oracle tables

{SQL query} method

PL/SQL – Java based RESTfull web service

{GET, PUT, POST HTTP} methods

CTB Evolution



Integration Tasks

- CTB R11 integrates all 3 main sources – CherryPy, COMA, PL/SQL
- 2 most important subjects to be solved for successful integration, are:
  1. Synchronization issue
  2. Decide which source should be implemented for what

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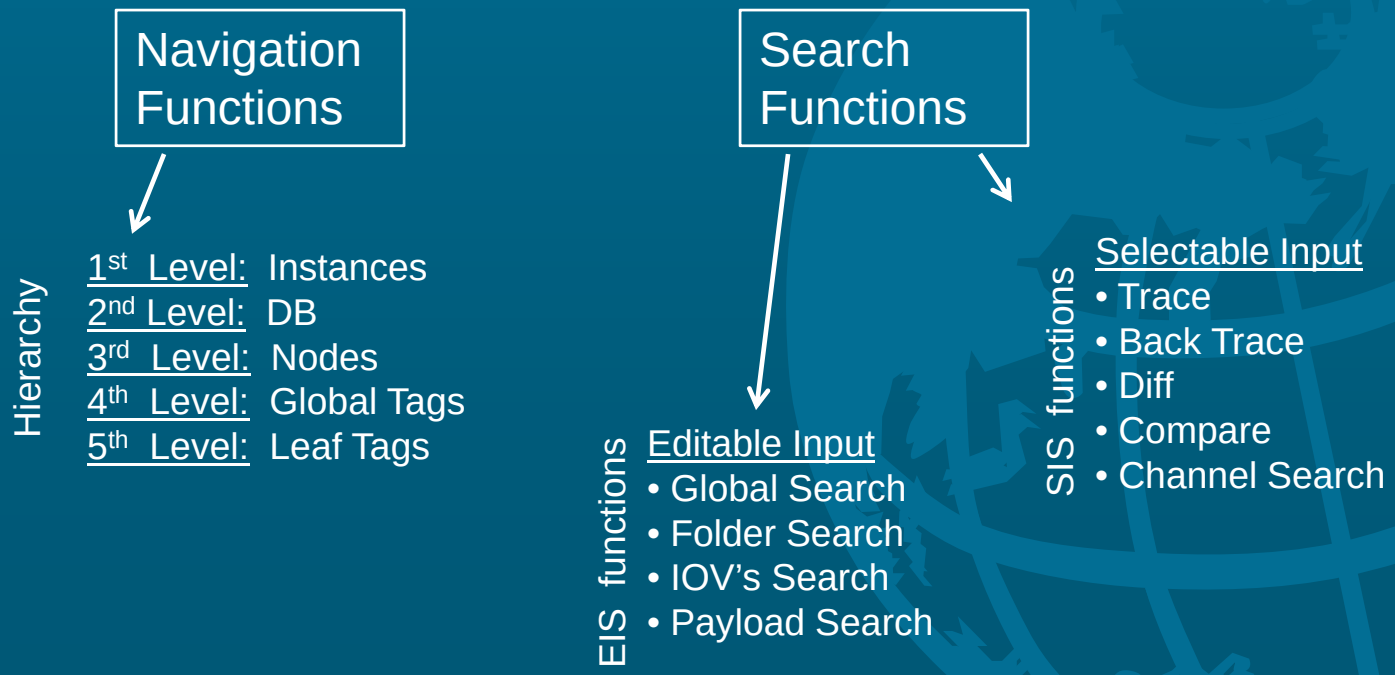
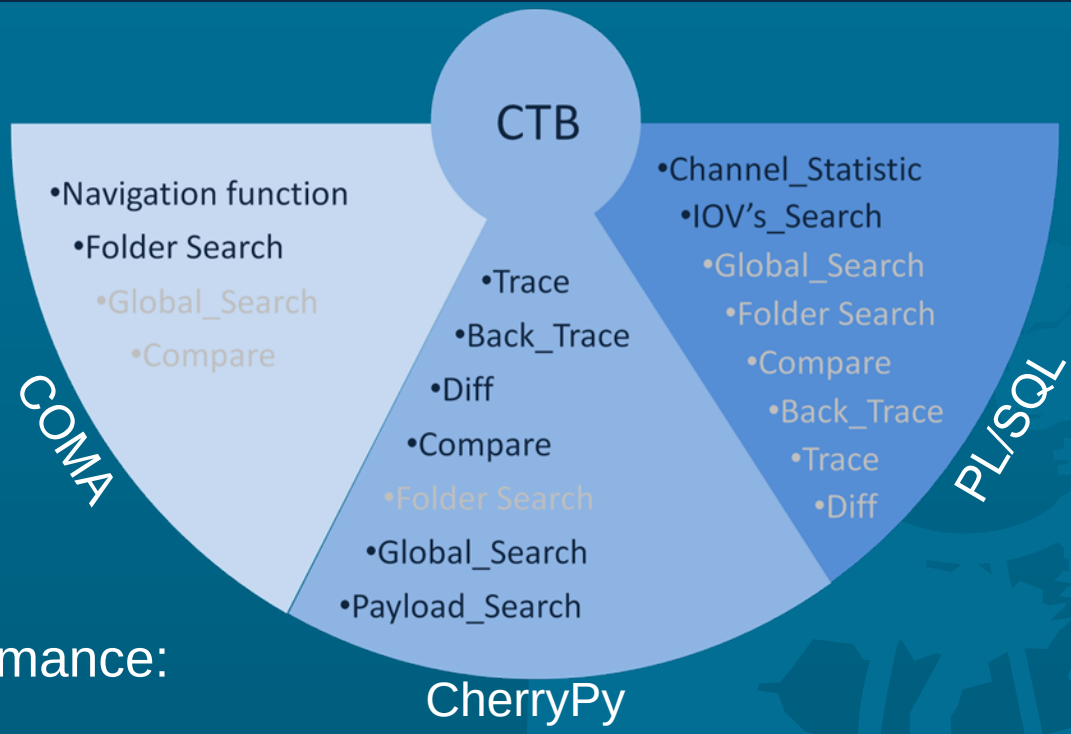
Development of clear concept

CTB R11 Concept

- CTB R11 architecture consists of 5 Php modules executing on the server and 8 JavaScript modules executing locally
- Php modules contain 2 categories of functions:



Distribution of Functions



Faster Performance:

COMA: *1-3ms*

- Navigation functions
- Folder Search EIS

PL/SQL: *50-400ms*

- Channel Statistic
- IOV Search

CherryPy: *250-10'000ms*

- SIS Functions
- EIS Functions

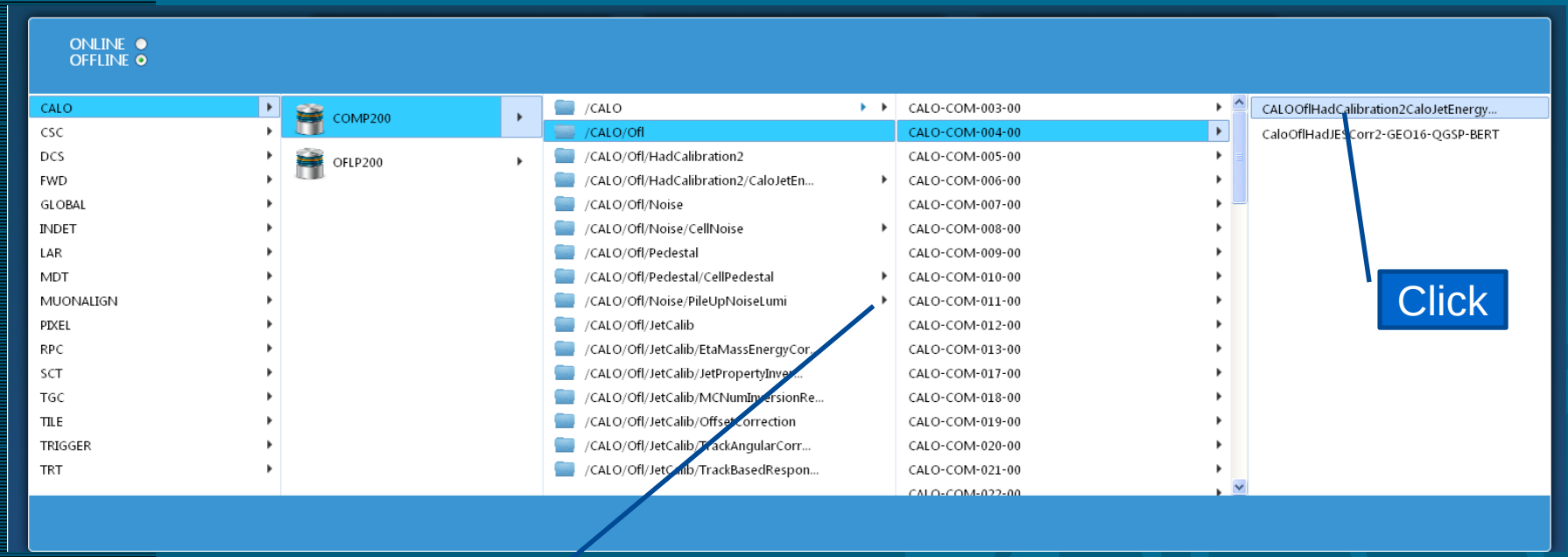
CTB R11 Concept

User interface functions based on JavaScript enable functionalities for:

- Parsing XML/JEISON data from servers
- Bookmarking current navigation scenario into a URL
- Showing navigation path in a status string
- Displaying job execution time to estimate system performance
- Filtering of large tag list in a given folder
- Displaying names of special Global Tags – Current, CurrentES, Next and NextES.

CTB R11 Interface

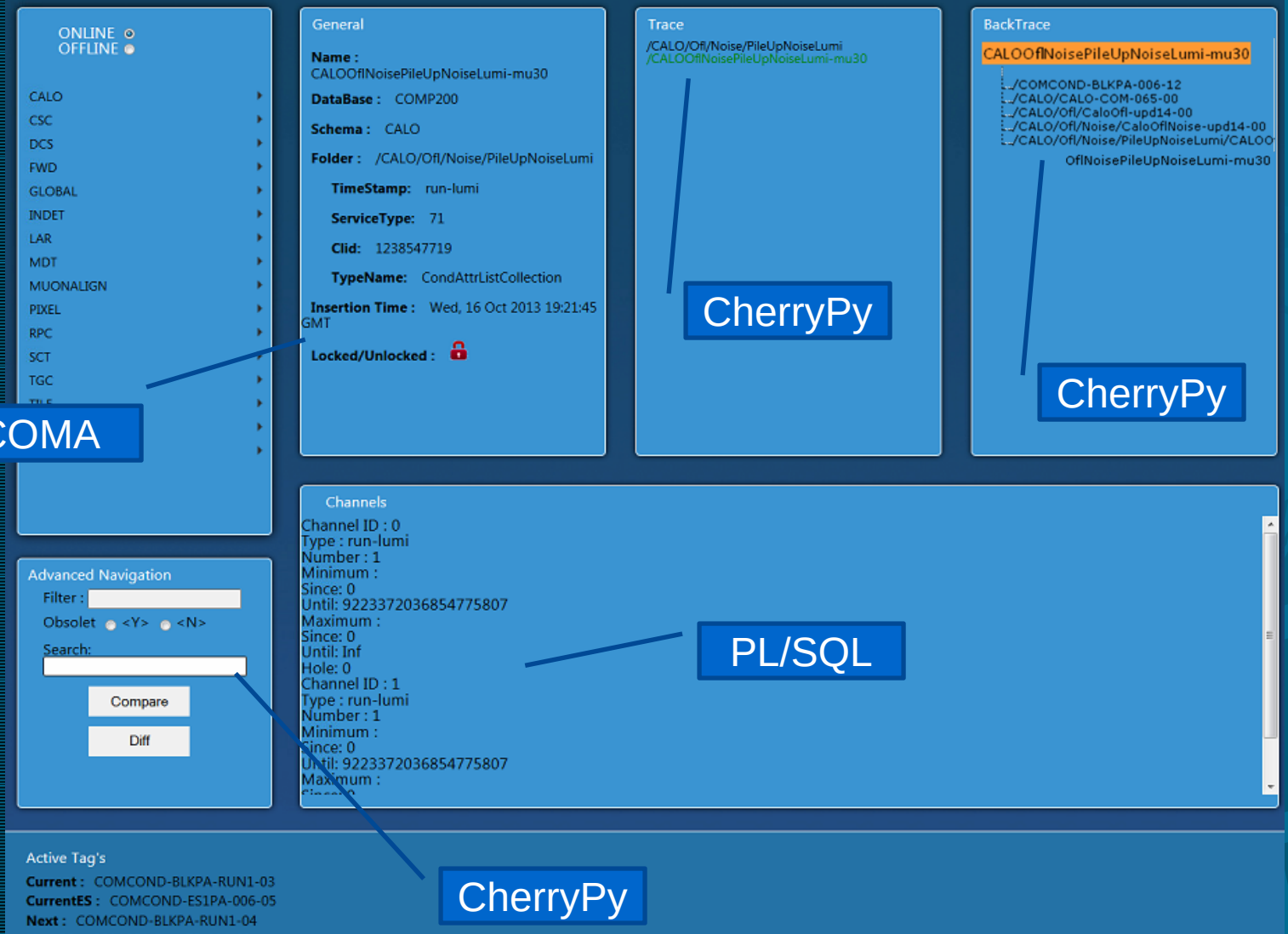
Dynamical Navigation Menu



Triangular markers notify is there something inside or not

Open Pandora with single Click

SIS / EIS functions Results



CTB R11 Configuration

Draft folder:

https://atlas-coolbrowser.web.cern.ch/atlas-coolbrowser/R11/

- This is not evolution of R10 code but completely new
- 1’700 program strings in 8 .js modules

Thank You,

All comments are welcomed

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