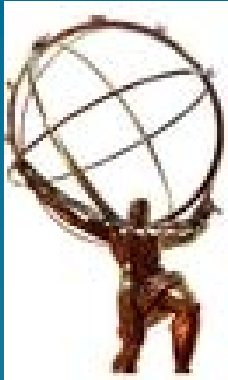


ATLAS SW WEEK, CERN 26 FEBRUARY, 2014



Cool Tag Browser status and developments

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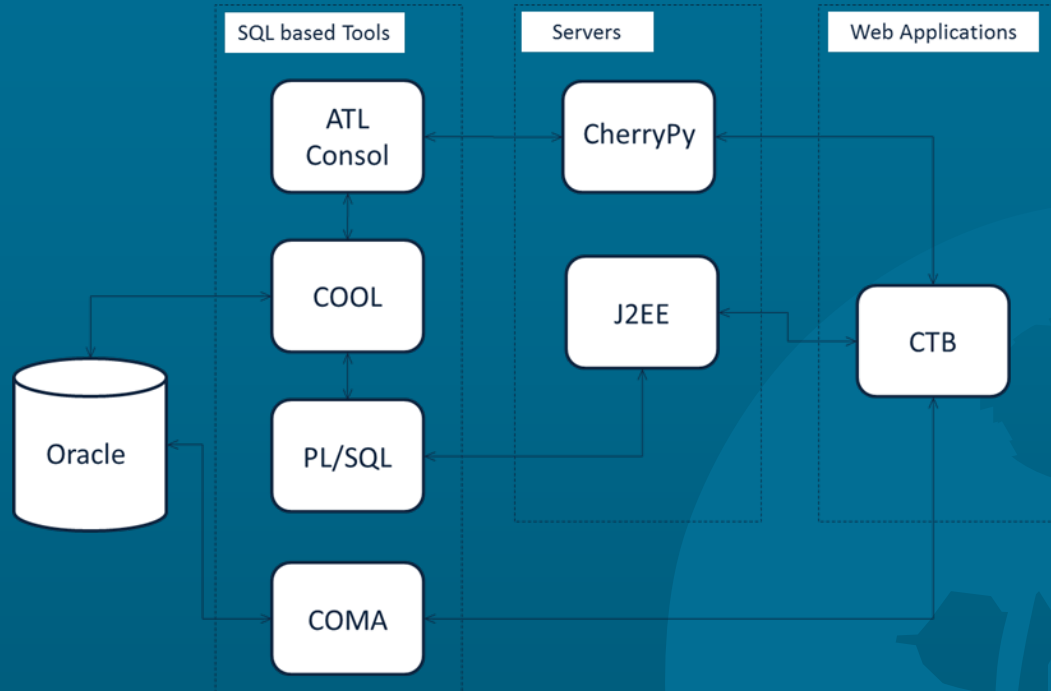
<http://www.cadcam.ge>



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

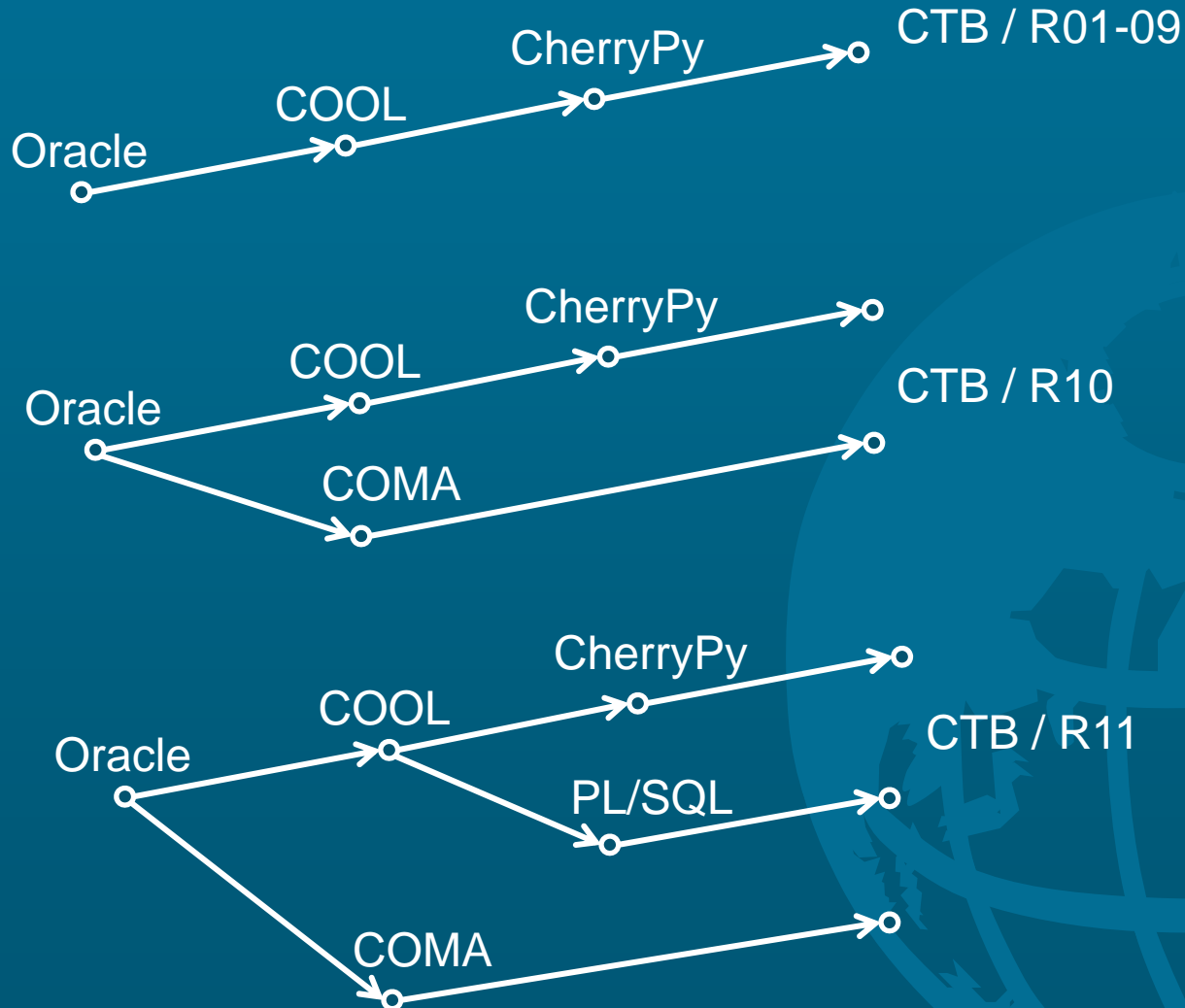
COMA– Daily updated subset of Oracle tables

{SQL query} method

PL/SQL – Java based RESTfull web service

{GET, PUT, POST HTTP} methods

CTB Evolution



Integration Tasks

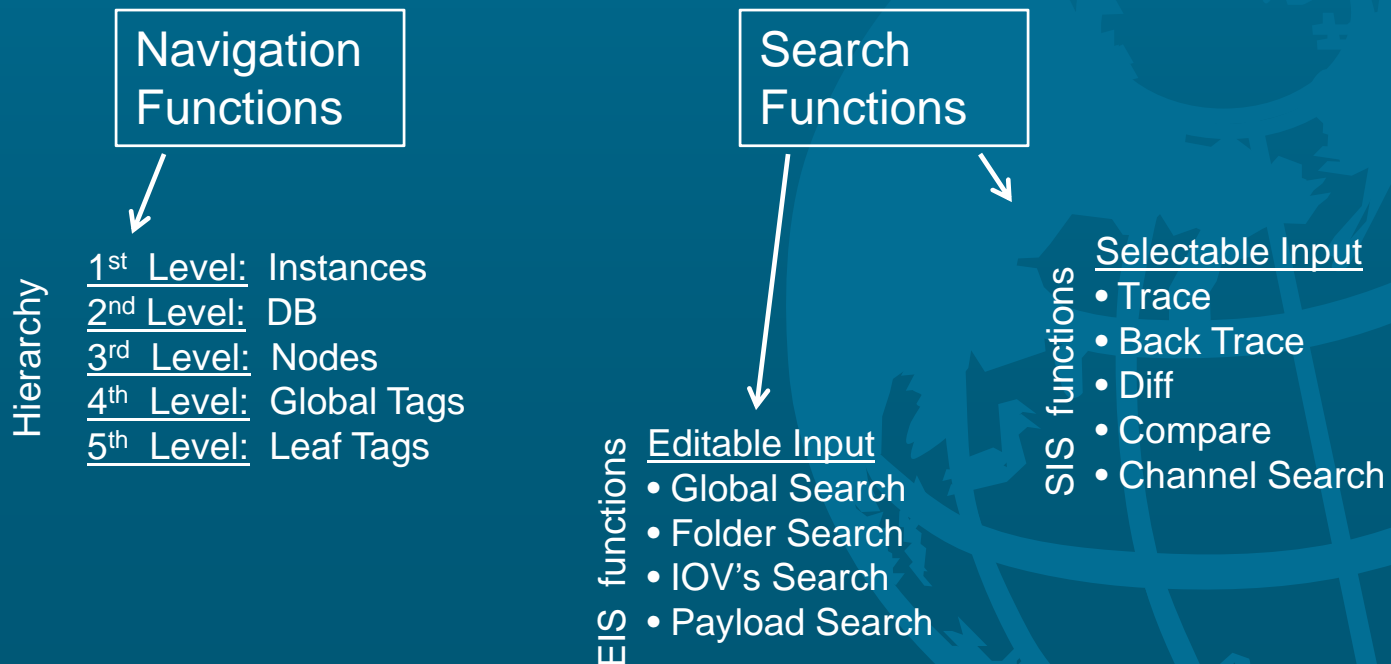
- CTB R11 integrates all 3 main sources – CherryPy, COMA, PL/SQL
- 2 most important subjects to be solved for successful integration, are:
 1. Synchronization issue
 2. Decide which source should be implemented for what



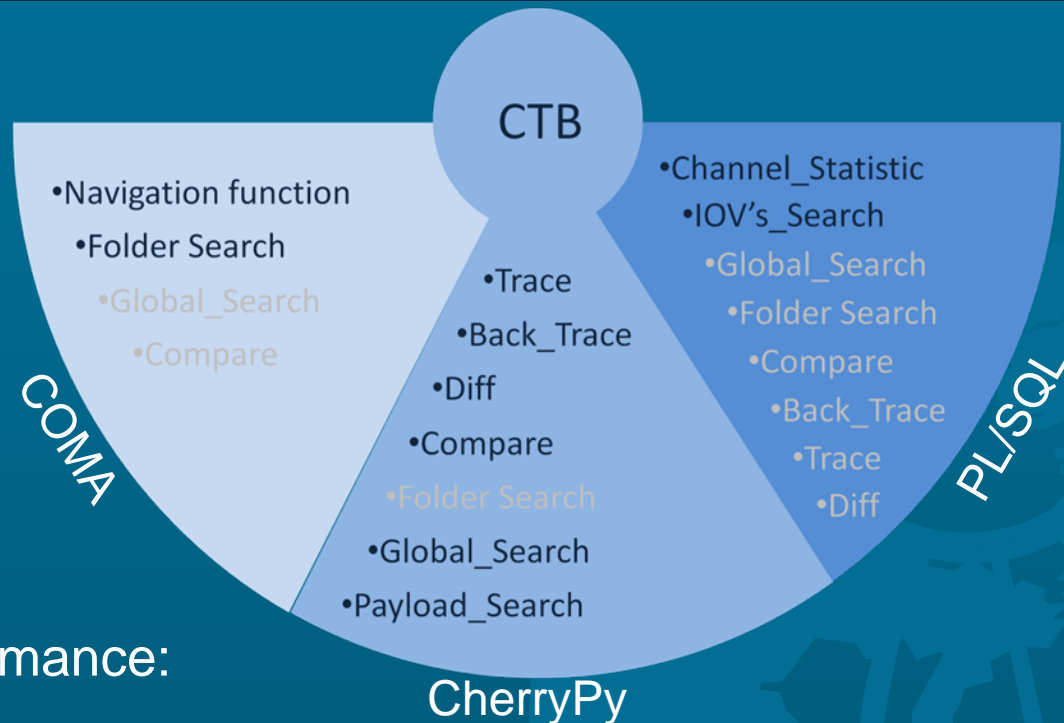
Development of clear concept

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/JSON 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

ONLINE ●
OFFLINE ●

CALO

- COMP200
 - /CALO
 - CALO-COM-003-00
 - CALO-COM-004-00
 - CALO-COM-005-00
 - CALO-COM-006-00
 - CALO-COM-007-00
 - CALO-COM-008-00
 - CALO-COM-009-00
 - CALO-COM-010-00
 - CALO-COM-011-00
 - CALO-COM-012-00
 - CALO-COM-013-00
 - CALO-COM-017-00
 - CALO-COM-018-00
 - CALO-COM-019-00
 - CALO-COM-020-00
 - CALO-COM-021-00
 - CALO-COM-022-00
- OFLP200

- CSC
- DCS
- FWD
- GLOBAL
- INDET
- LAR
- MDT
- MUONALIGN
- PIXEL
- RPC
- SCT
- TGC
- TILE
- TRIGGER
- TRT

Click

Triangular markers notify is there something inside or not

Open Pandora with single Click

SIS / EIS functions Results

ONLINE ○
OFFLINE ●

- CALO
- CSC
- DCS
- FWD
- GLOBAL
- INDET
- LAR
- MDT
- MUONALIGN
- PIXEL
- RPC
- SCT
- TGC
- TLE

COMA

General

Name :
CALOOfNoisePileUpNoiseLumi-mu30
DataBase : COMP200
Schema : CALO
Folder : /CALO/Of/Noise/PileUpNoiseLumi
TimeStamp : run-lumi
ServiceType : 71
Cid : 1238547719
TypeName : CondAttrListCollection
Insertion Time : Wed, 16 Oct 2013 19:21:45 GMT
Locked/Unlocked :

Trace

/CALO/Of/Noise/PileUpNoiseLumi
/CALOOfNoisePileUpNoiseLumi-mu30

CherryPy

BackTrace

CALOOfNoisePileUpNoiseLumi-mu30
└─ /COMCOND-BLKPA-006-12
└─ /CALO/CALO-COM-065-00
└─ /CALO/Of/CaloOf-upd14-00
└─ /CALO/Of/Noise/CaloOfNoise-upd14-00
└─ /CALO/Of/Noise/PileUpNoiseLumi/CALOOfNoisePileUpNoiseLumi-mu30

CherryPy

Channels

Channel ID : 0
Type : run-lumi
Number : 1
Minimum :
Since : 0
Until : 9223372036854775807
Maximum :
Since : 0
Until : Inf
Hole : 0
Channel ID : 1
Type : run-lumi
Number : 1
Minimum :
Since : 0
Until : 9223372036854775807
Maximum :

PL/SQL

Advanced Navigation

Filter :

Obsolet <Y> <N>

Search:

Compare

Diff

Active Tag's

Current : COMCOND-BLKPA-RUN1-03
CurrentES : COMCOND-ES1PA-006-05
Next : COMCOND-BLKPA-RUN1-04

CherryPy

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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