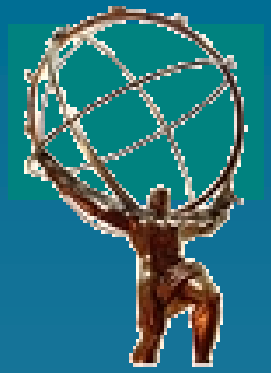

ATLAS SW WEEK, CERN 16 OCTOBER, 2012

New Global Tag Browser R10

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Global Tag Browser R10

- Technical Requirements were announced on ATLAS SW in March,2012

- Almost ready but still in development folder:

https://atlas-coolbrowser.web.cern.ch/atlas-coolbrowser/R10.1/#

Technical Requirements

Integration:

1. COMA tables
2. AMI data

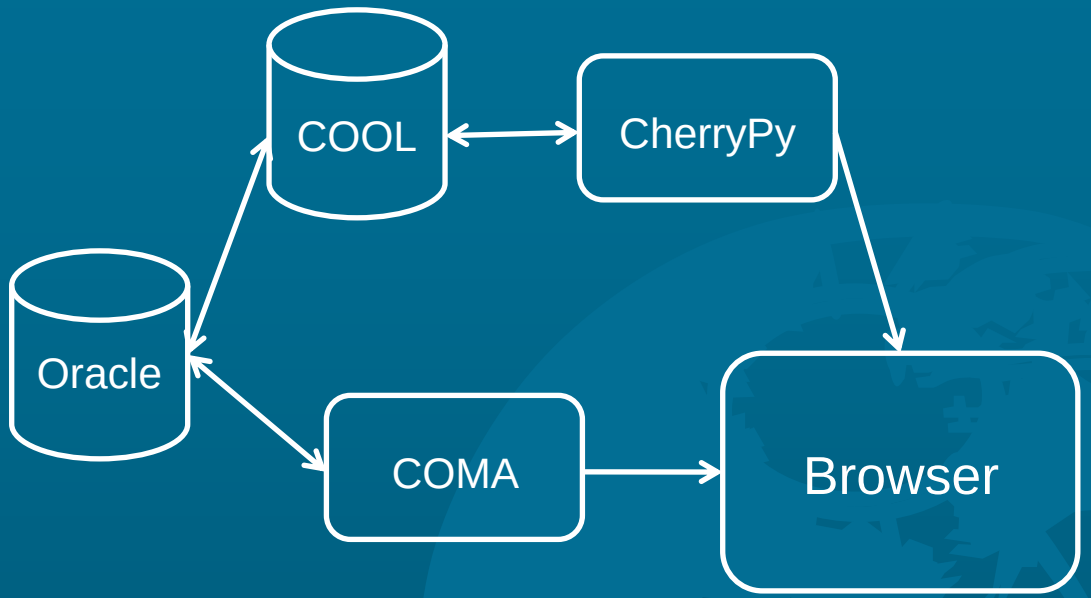
Functionality:

1. Navigation in both platforms CherryPy and COMA
2. Add tag Creation time, user details
3. Show number of IOV's for given leaf tag
4. Select IOV's and displaying the payload values for each of IOV
5. Plotting the payload values across the range of IOV's

Interface:

1. Adding string box for entering the global tag name, so to display then list of all tags for all schema
2. Display tag which is used for Bulk (Express stream) production
3. Add Labels
4. Display Query execution time
5. Bookmark the navigation scenario in URL

COOL / COMA Integration



Advantages

COMA:

1. Integration with other DB's
2. Performance

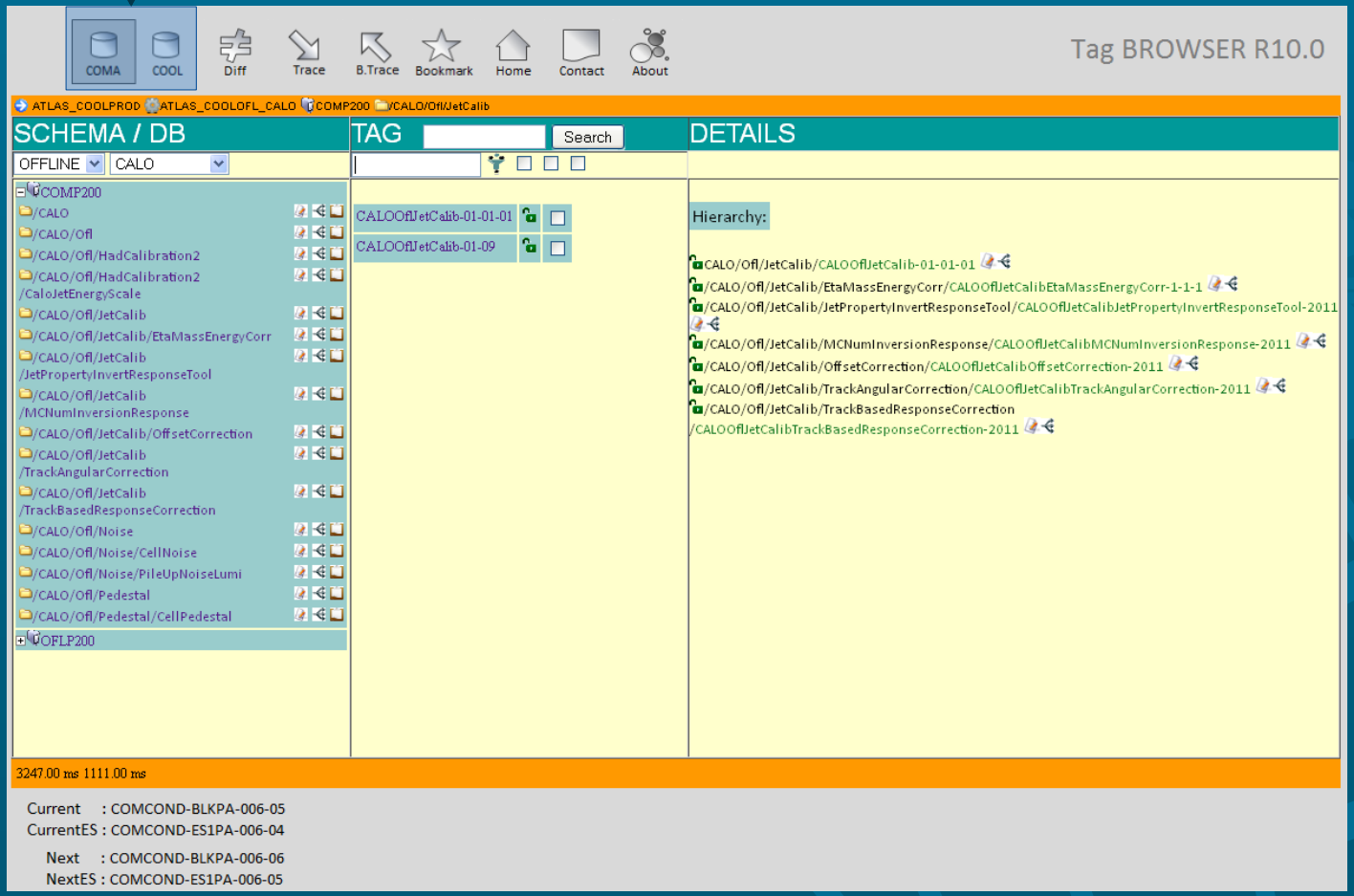
COOL:

1. Getting Payload data
2. Updated data

- In most of cases same navigation paths
- Synchronization of results is key issue

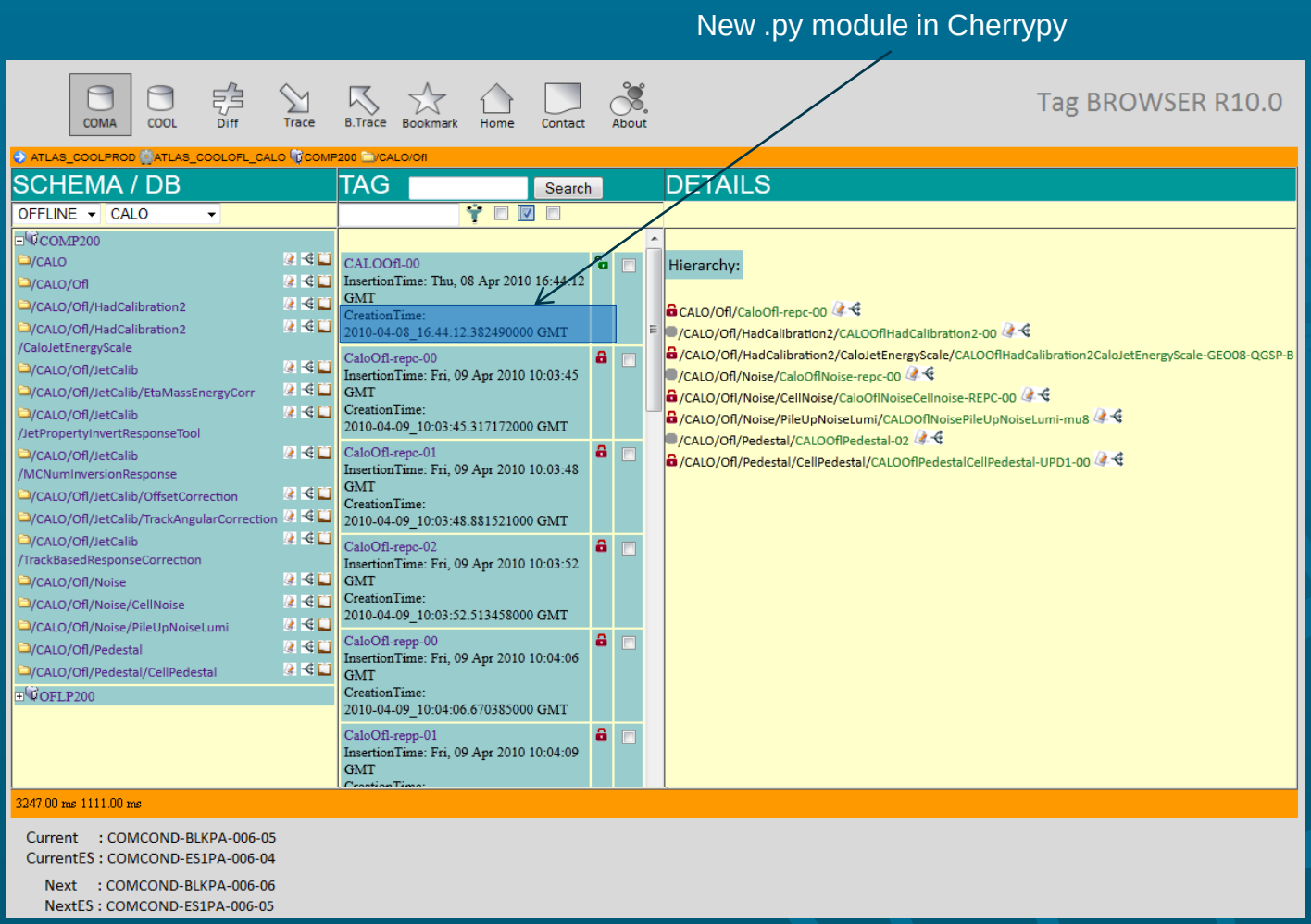
COOL / COMA Integration

Switcher



- Switching buttons have cash for keeping navigation paths

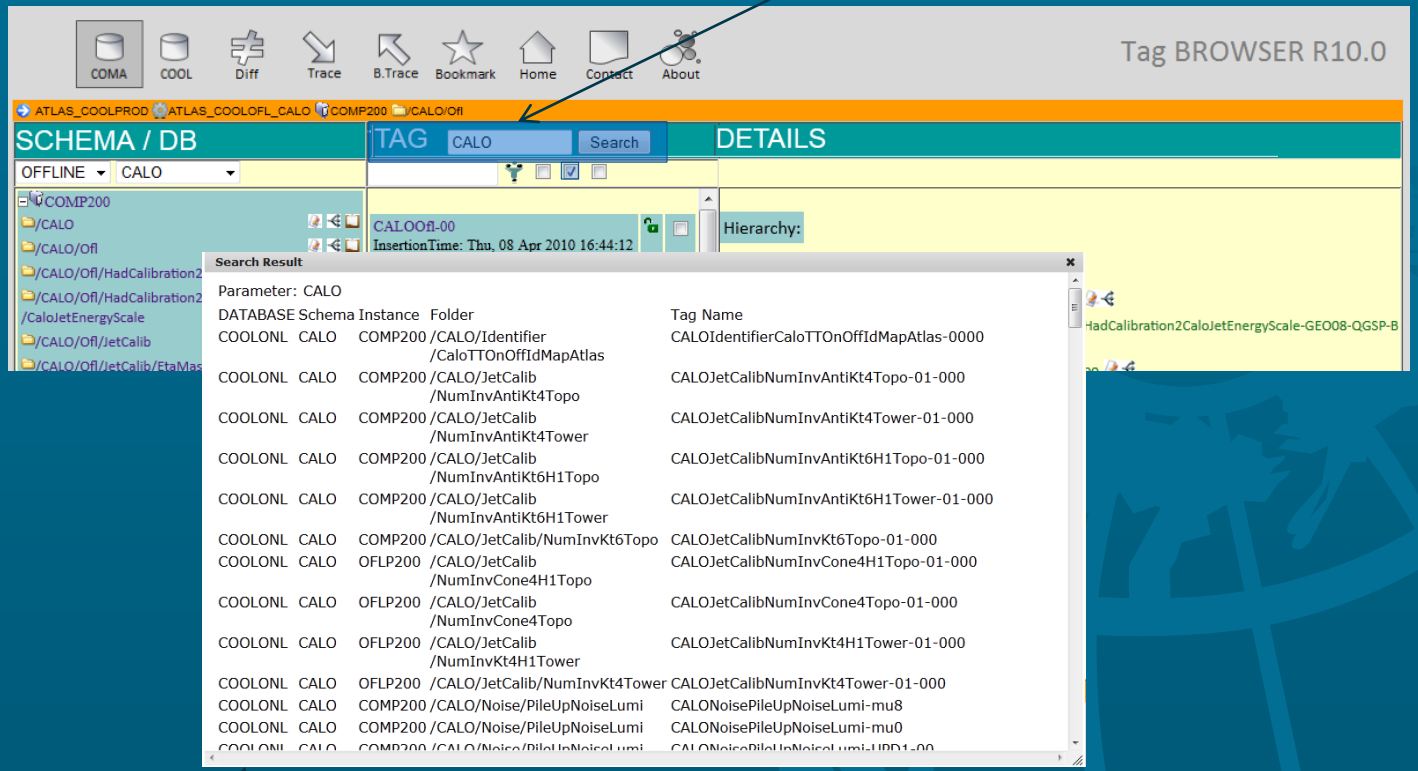
Add tag Creation time, User details



- Thanks to Misha Borodin

Add Search Functionality

String box for Search



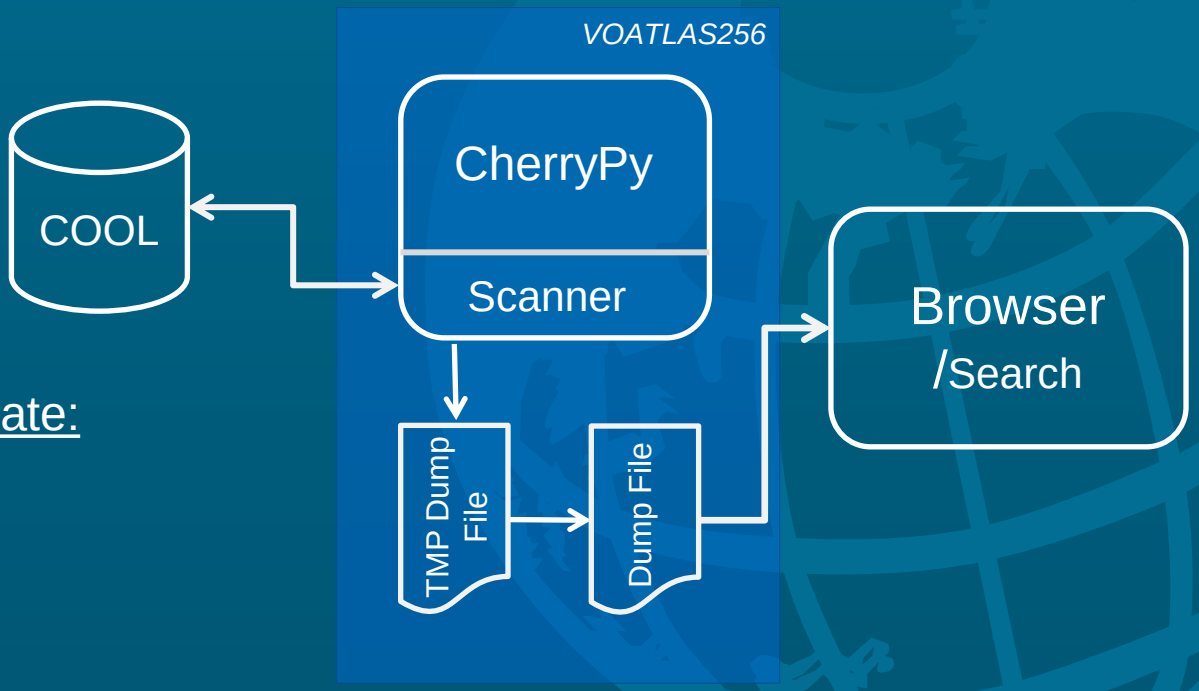
Search Result Window

Add Search Functionality

We have tried different ways for search:

- Searching directly in Browser: Takes ~5min
- Searching by Cherrypy on voatlas server: Takes ~4min

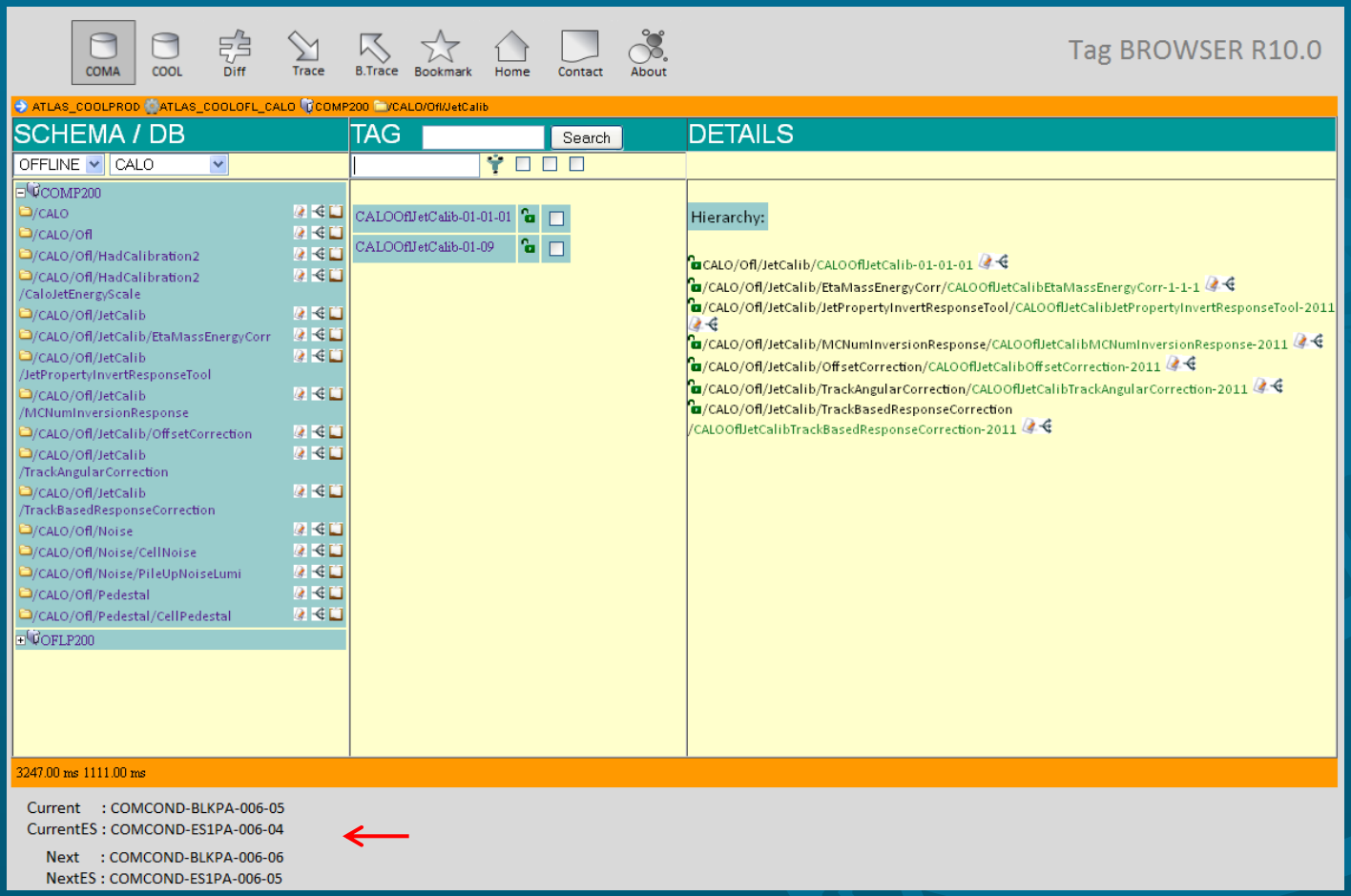
Finally we decide to create Scanner in Cherrypy and search in dump file



3 time daily update:

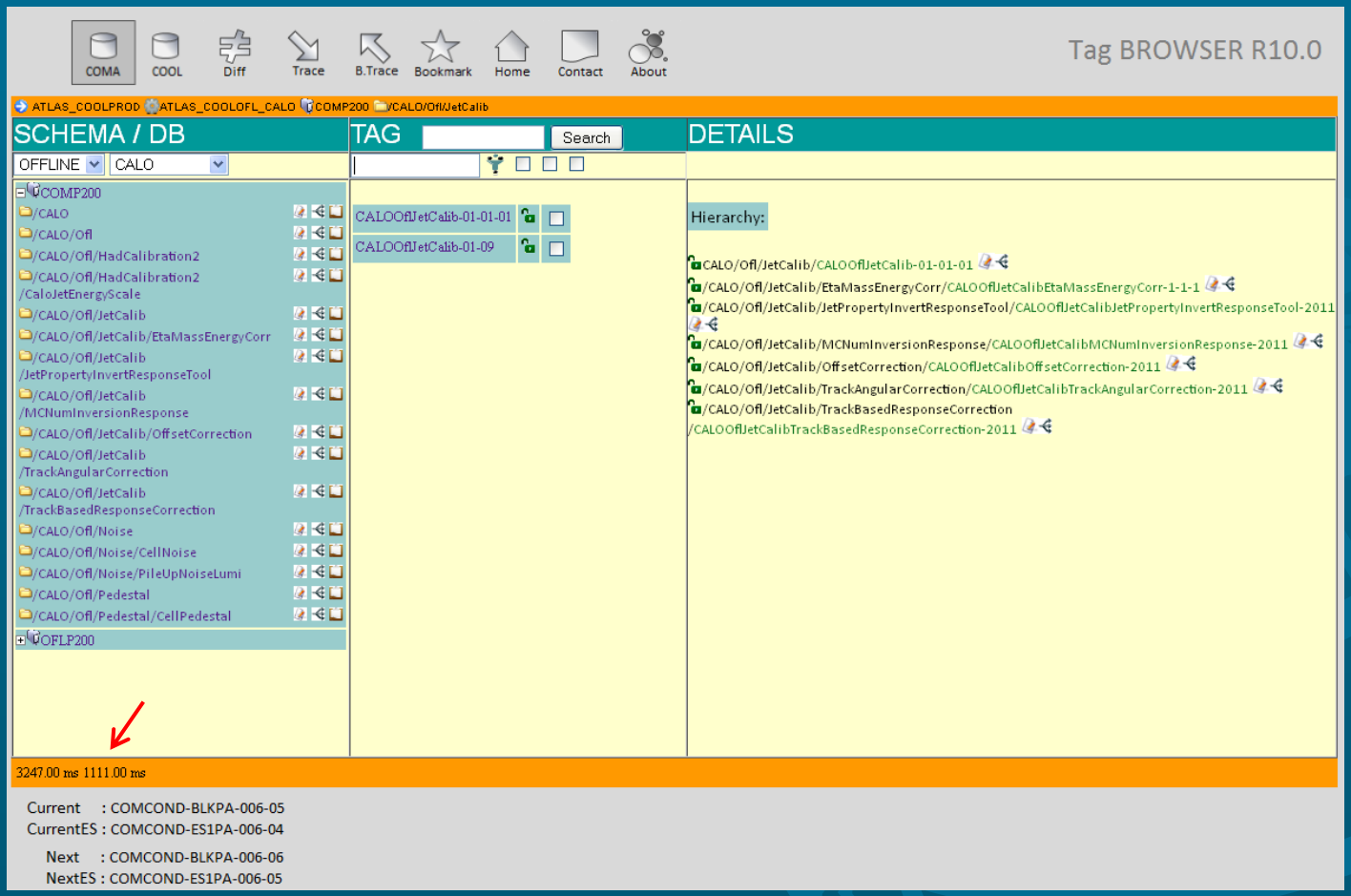
- 08h00 AM
- 14h00 PM
- 18H00 PM

Add Bulk Production Tags



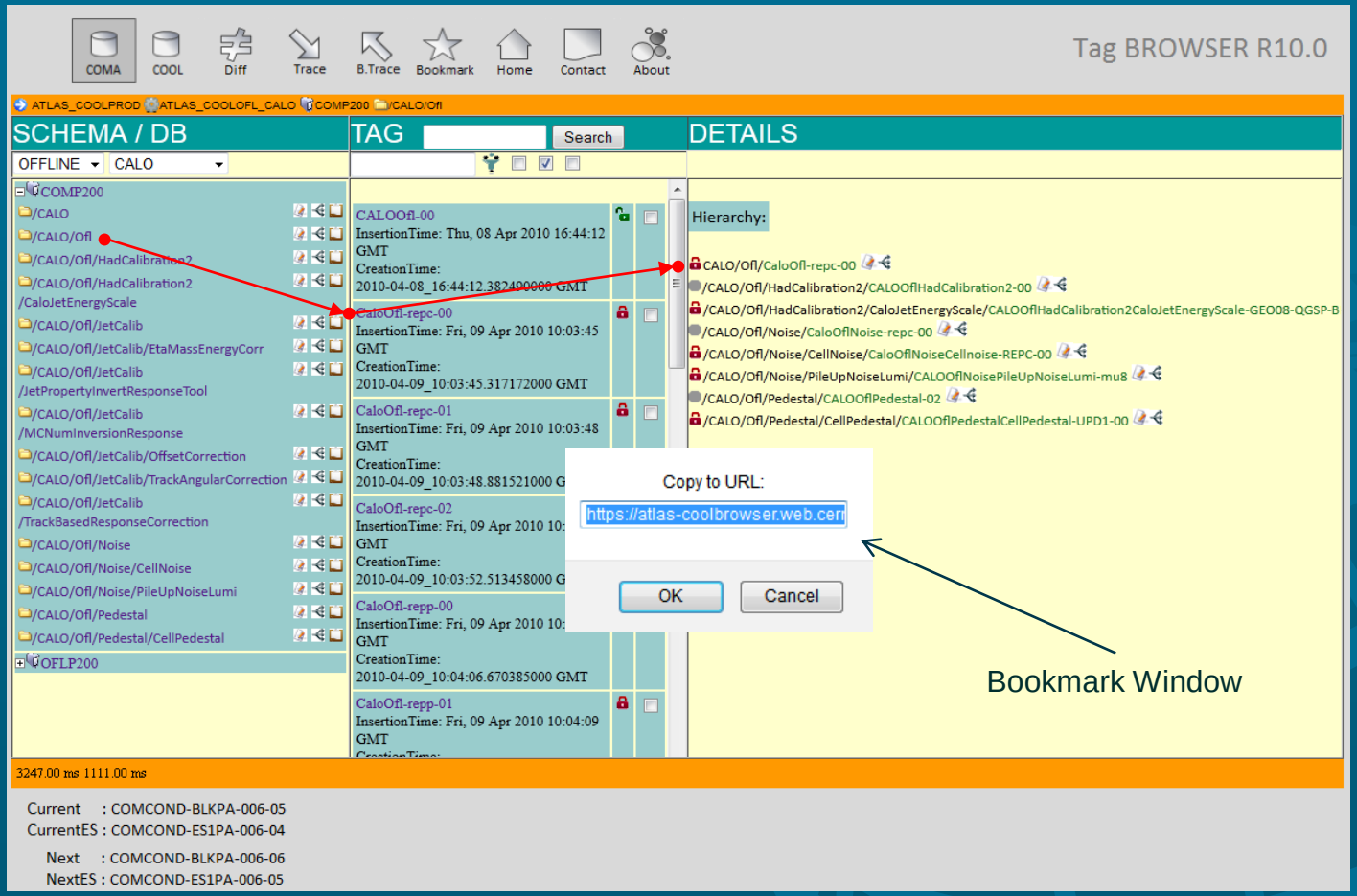
- Tags names are reading from AFS folder /afs/cern.ch/atlas/conditions/poolcond/buffer/BestKnowledge

Display Query Execution Time



- Keeping previous execution time (ms) for comparison

Bookmark Navigation Path



- https://atlas-coolbrowser.web.cern.ch/atlas-coolbrowser/R10.1/index.php?surlpath=ATLAS_COOLOFL_CALO/COMP200/CALO/Ofl&surltag=&surlres=payload

Next Steps

- Fix bugs which are now enough annoying
- Put Browser in Production folder under R10.0 release
- Add missing IOV staff – items #3, 4, 5 in technical requirements and modify release to R10.1. Looking forward to .py modules from Andrea
- Establish AMI connection and modify release to R10.2

Acknowledgments

- Shaun Roe – for voatlas256 installations
- Misha Borodin – for .py modules
- Andrea Formica – for support and fresh ideas

Thanks for your Attention !