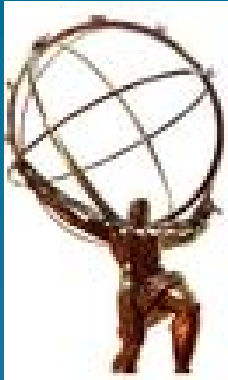


**ATLAS SW WEEK, CERN 02 DECEMBER, 2010**



# ***COOL TAG Browser***

## ***Release 8.0***

Lasha SHARMAZANASHVILI

Georgian CAD/CAM Engineering Center - GCCEC,  
Georgian Technical University

<http://www.cadcam.ge>



# What's New in R8.0

- On-Line/Off-Line DB
- Filtering of global Tags
- User Interface
- Channel Searching By:
  - Date
  - Run Number/Lumi Number
  - IOV

<http://atlas-coolbrowser.web.cern.ch>



# On-Line/Off-Line DB

The screenshot shows a web browser window titled "COOL DB" with the URL <https://atlas-coolbrowser.web.cern.ch/atlas-coolbrowser/TEMP/start.html#>. The page displays the "Atlas Cool DataBase" interface with three main sections: "SCHEMA / DB", "TAG", and "DETAILS".

The "SCHEMA / DB" section shows a tree view of the database structure. A blue callout box labeled "Switch" points to a dropdown menu currently set to "OFFLINE". The tree includes folders like CALO, CSC, COMP200, and various sub-folders under CSC such as FT HOLD, GAIN, NOISE, PEAKT, PED, PSLOPE, RMS, RSLOPE, SAT1, SAT2, STAT, THOLD, and WIDTH.

The "TAG" section displays a list of tags with columns for tag name, status (lock icon), and a checkbox. The tags listed include COMCOND-001-00 through COMCOND-BLKPS-004-01.

The "DETAILS" section shows a "Hierarchy" view for the selected tag, displaying a tree of related tags such as /COMCOND-001-00, /CSC/Csc-temp-000-00, /CSC/FTHOLD/CscFthold-pedPlusNoise-001-05, etc.

At the bottom of the browser window, a status bar indicates: "Loading 'https://atlas-coolbrowser.web.cern.ch/atlas-coolbrowser/TEMP/start.html#', completed 23 of 24 items".


Switch















# Filtering of Global Tags

Dynamical Filtering

**TAG**

005   Show/Hide

COMCOND-005-00		<input type="checkbox"/>
COMCOND-005-01		<input type="checkbox"/>
COMCOND-005-02		<input type="checkbox"/>
COMCOND-REPC-005-00		<input type="checkbox"/>
COMCOND-REPP-005-00		<input type="checkbox"/>
COMCOND-REPP-005-01		<input type="checkbox"/>
COMCOND-REPPS-005-00		<input type="checkbox"/>
COMCOND-REPPS-005-01		<input type="checkbox"/>
COMCOND-REPPST-005-00		<input type="checkbox"/>
COMCOND-REPPST-005-01		<input type="checkbox"/>
COMCOND-REPPT-005-00		<input type="checkbox"/>
COMCOND-REPPT-005-01		<input type="checkbox"/>



# User Interface Modification

The screenshot displays a software interface for managing a database schema. It is divided into three main sections: SCHEMA / DB, TAG, and DETAILS.

- SCHEMA / DB:** Shows a tree view of the database structure. The 'COMP200' folder is expanded, showing sub-folders like /CSC, /CSC/FTHOLD, /CSC/GAIN, /CSC/NOISE, /CSC/PEAKT, /CSC/PED, /CSC/PSLOPE, /CSC/RMS, /CSC/RSLOPE, /CSC/SAT1, /CSC/SAT2, /CSC/STAT, /CSC/THOLD, and /CSC/WIDTH. A blue callout box labeled 'Show/Hide' points to the expand/collapse icons next to these folders.
- TAG:** Lists individual data processing tasks. Each row includes a tag ID (e.g., COMCOND-001-00), a description (e.g., Initial M6 data processing), a lock icon, and a checkbox. A blue callout box labeled 'Change Hierarchy' points to the lock icon for the 'COMCOND-006-01' tag.
- DETAILS:** Displays a 'Hierarchy' tree for the selected tag, showing its path within the database structure (e.g., /COMCOND-001-00, /CSC/Csc-temp-000-00, /CSC/FTHOLD/CscFthold-pedPlusNoise-001-05).



# Channel Searching

1

CHANNEL:	<input type="text"/>
SELECT TYPE:	Date
IOV_START:	2010 12 28 20 59
IOV_END:	2010 12 31 23 59
<input type="button" value="Submit"/>	

Channel ID

Find by date

2

CHANNEL:	<input type="text"/>
SELECT TYPE:	Run_Lumi
Number:	<input type="text"/>
<input type="button" value="Submit"/>	

Find by Run/Lumi Number

3

CHANNEL:	<input type="text"/>
SELECT TYPE:	Nanoseconds
IOV_START:	1286871314000000000
IOV_END:	1286871714000000000
<input type="button" value="Submit"/>	

Find by Nanoseconds

Interval Of Validity in ns of epoch  
OR runNumber << 32 + lumiblock



# Generic Draft of R9.0

- AtlCoolTag functionality
  - Commands: *diff*, *trace* (*backtrace*)
- Channel Search: *Run\_Number / Lumi\_Number*
- Caching:
  - Search strings in Channels window
  - Reset default data of Channels
  - Filter string for various Schema and DB
  - Keep Scenarios for On-line/Off-line sessions



# Generic Draft of R9.0

- Move 1<sup>st</sup> hierarchy in combo
- Leaf Tags Preview
- Obsolete Tags Show/Hide

