

# Conditions Metadata and RunBrowser Update

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- Background: this Conditions Metadata project
- 3 Components, their design principles, status
  - [COMA Tables](#)
  - [runBrowserReport](#)
  - [runBrowser](#)
- Current topic of general interest:
  - [Data Periods](#)
- Links and Documentation
- Plans
- Summary

# Background

- Already covered: TAGs, ELSSI, Catalog
- This talk: COMA (Conditions Metadata)
  - A collection of selected/derived Run/LB-wise Conditions
  - Originally built to support dynamic queries of TAG DB
- Detailed Run-wise selection in ELSSI ... difficult ... decided:
  - ELSSI would be the Event-wise browser
  - RunBrowser would be the Run-LB-wise browser
    - Which communicates with e.g. ELSSI via xml (GRL)
- The fundamental components are:
  - **COMA Relational Database tables** 
  - RunBrowser Interfaces:
    - **runBrowserReport** – report interface for the COMA Tables
    - **runBrowser** – dynamic tool for finding Run/LB of interest

Topic 2

Topic 3

- Conditions Metadata
  - Will be uploaded from best available sources
  - Into a Relational Database to which ELSSI has easy access
- Must provide information ELSSI needs to decode TAG attributes
- Include information for both Online and MC Runs
  - TAGs for Online/MC have the same attributes (no MC truth)
  - Catalogue for Online/MC reflects similar processing workflows
- Overall system must handle gracefully missing information
- Upload select conditions for Runs of 'analysis interest'
  - Note: NOT all Runs and not all Conditions
  - Only upload Conditions in LOCKED COOL tags (w/cross checks)
- Refine/Correct/Derive conditions to form more effective criteria
  
- Recently: AMI now has full access to all information in COMA
  - Some schema and data changes may be made to make structures and data better 'connected' to AMI interfaces and its dataset/file/processing metadata



# COMA and Data Periods

Current Data Period implementation:

- AFS files edited by experts – has been a flexible system over this first year of running while use cases solidify
- <https://twiki.cern.ch/twiki/bin/view/AtlasProtected/DataPeriods>

These Period AFS files → COMA Period tables, updated daily

- Schema, loading stable for the last few months
- DP in COMA: Now used by AMI , Catalog, ELSSI, RunBrowser

Current discussion with Beate (Data Prep), AMI team:

- Best long term storage of Data Periods is in a database
  - Makes it available to a wider variety of systems
  - Generate documentation as in TWiki DataPeriods
    - Automatically from the database, much more customizable !

Proposal:

- Make COMA tables the primary source
- Upload current descriptions from TWiki to COMA tables
- Work with AMI team to provide interfaces

# COMA / AMI Data Period Interfaces

- Create Data Period Entry interface:
  - Use info in COMA to generate list of candidate runs which should belong to a Data Period (reduces human error and expert effort)
    - Project name, Lum > 0nb-1, ready flag true, DQ atlas\_global true (?)
  - Allow creation of
    - New Data Periods (Descriptions, included runs) e.g. B1, B2
    - New 'Parent Periods' (groups of Data Periods) e.g. B
    - New 'Grandparent Periods' ... e.g. All\_data10\_7TeV
  - Introduce 'Locking' mechanism when a Period is closed
    - Upload to COOL if used by any analysis jobs (? Not known ?)
  - Allow modification of Descriptions (at any point)
  - Possibility of 'types' of Data Periods (runs for special studies)
  - Provide authentication mechanisms
- Create Data Period Report interface:
  - Starting point: contents of existing TWiki ... content flexible !
- Create Service to report Runs in Data Periods to systems needing it:
  - runQuery, DQ GRL Generator, DP to make containers, ... ?
    - currently reading AFS files

# runBrowserReport: General Principles

runBrowserReport → Report interface for COMA

- Display what COMA knows about each Run
  - Useful for COMA loading and cross checks
- Provide links to more detailed information (in other systems)
  - runQuery, AMI, Trigger, Data Quality ...reports using COOLCherryPy
- Provide reports distinctive from other systems
  - (Avoid duplication of effort)
  - Display COMA 'derived' information
    - Not available in other systems
- runBrowserReport php uses GET methods:
  - Inputs are not complex, user can modify URL to get report they want, put links into TWiki or other documentation

<https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?runs=161562>

- Currently: ELSSI and runBrowser generate links to runBrowserReports for selections in those systems ... link in AMI soon (?)



# ELSSI Link to runBrowserReport

- ELSSI contains a new link to runBrowserReports
  - User chooses the Collection Name
  - ELSSI shows Runs in the Collection
  - **NEW: ELSSI displays link to pop-up runBrowserReport**

The screenshot shows the ELSSI interface with a navigation bar at the top containing tabs for 'data10', 'data09', 'usermix', 'mc09', and 'mc08'. The main content area is divided into a green left pane and a blue right pane. The green pane displays a breadcrumb 'data10 » data10\_7TeV » TAG:' followed by three sections of data collections, each with a dropdown menu: 'May10 reprocessing TAG data collections (sub\_total: 19)' with 'data10\_7TeV\_physics\_L1CaloEM\_r1297\_p161\_p160\_READ' selected; 'April10 reprocessing TAG data collections (sub\_total: 10)' with 'Select one' selected; and 'First Pass TAG data collections (sub\_total: 236)' with 'Select one' selected. Below these is 'All data10\_7TeV TAG data collections (total: 494)' with 'Select one' selected. The blue pane shows a list of run numbers (152166, 152214, 152220, 152221, 152345, 152409, 152441) with a title 'Run numbers (select multiples by holding 'Ctrl' or 'Shift'):' and a note 'Condition: Metadata for these Runs is available at [COMA runBrowserReport](#)'. A black arrow points from the first bullet point to the breadcrumb, and another black arrow points from the second bullet point to the run numbers list. A red arrow points from the third bullet point to the 'COMA runBrowserReport' link.

# Example runBrowserReport from ELSSI link:

## COnditions MetadataA Runs Report

TAG  
Collection : data10\_7TeV\_physics\_MinBias\_r1297\_p161\_p160\_READ  
(coll)  
Run Number (runs)  
152166, 152214, 152220, 152221, 152345, 152409, 152441, 152577, 152777, 152844, 152845, 152878, 152933, 152994, 153030, 153134, 153136, 153159, 153200, 153565, 153599, 154810, 154813, 154815, 154817

Found 25 Runs with input criteria ...

RUN	FILENAME_TAG	START_TIME	DURATION	NLBN	TMK	PARTITION	EVENTS	PERIODS
<a href="#">154817</a>	data10_7TeV	2010-MAY-09 07:19:48	37719 seconds (10:28:39)	325 [1-325]	788	ATLAS	11348226	B,B1
<a href="#">154815</a>	data10_7TeV	2010-MAY-09 05:46:38	4624 seconds (1:17:04)	41 [1-41]	788	ATLAS	1347283	B,B1
<a href="#">154813</a>	data10_7TeV	2010-MAY-08 22:58:03	23369 seconds (6:29:29)	195 [1-195]	788	ATLAS	5620746	B,B1
<a href="#">154810</a>	data10_7TeV	2010-MAY-08 17:06:54	2309 seconds (39:09:09)	170 [1-170]	770	ATLAS	1012309	B,B1
<a href="#">153599</a>	data10_7TeV	2010-MAY-08 17:06:54	10563 seconds (2:52:43)	10563 [1-10563]	770	ATLAS	1010563	B,B1
<a href="#">153565</a>	data10_7TeV	2010-MAY-08 17:06:54	1030467 seconds (29:50:47)	1030467 [1-1030467]	770	ATLAS	101030467	B,B1
<a href="#">153200</a>	data10_7TeV	2010-APR-18 21:31:30	20893 seconds (5:48:13)	183 [1-183]	770	ATLAS	1723618	A
<a href="#">153159</a>	data10_7TeV	2010-APR-18 06:58:50	21345 seconds (5:55:45)	186 [1-186]	770	ATLAS	2453962	A
<a href="#">153136</a>	data10_7TeV	2010-APR-17 00:00:00	30383 seconds (8:23:03)	263 [1-263]	770	ATLAS	1007721	A

1. Click on link in ELSSI ...  
This report displays basic Run information for all Runs in the chosen collection (start time, LBs, period...)

2. Click on a specific Run link ...  
Will generate a rBR single Run report with more information about that Run

# runBrowserReport: Reports available

**RBR Run Report** (Run 161562):

<https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?runs=161562>

- General Run information, AMI tags, DQ, Prescale Evolution, Triggers
  - Trigger tables show derived Run-integrated prescale, passthrough

**RBR Master Key Report** (Key 877):

<https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?tmk=877>

- Runs using this TMK, physics/commissioning chains, Level 1 items

**RBR Chain Report** (Chain EF\_g11\_etcut):

[https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?cn=EF\\_g11\\_etcut](https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?cn=EF_g11_etcut)

- Summary: TMK,Runs with this chain
- Runs with this trigger 'active'

**RBR Chain Wildcard Report** (chain name matching string EF\_g1%):

[https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?cn=EF\\_g1%](https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?cn=EF_g1%)

- Summary: TMK,Runs with this chain, activation in Runs

**RBR Prescale Report** (Run 162882 Prescales for chain EF\_g11\_etcut):

[https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?runs=162882&cn=EF\\_g11\\_etcut](https://atlas-tagservices.cern.ch/RBR/runBrowserReport.php?runs=162882&cn=EF_g11_etcut)

- Derived chain activity over the Run and LB-wise prescales

**runBrowser** = interface for RunLB selection using COMA Tables

- Purpose: Make conditions metadata available as selection criteria in advance of analysis ... Envisioned as the Run-level browser for ELSSI ... current implementation makes it also available stand-alone.
- Intermediate results may be what the user is looking for  
I.E. show me the Runs taken on this date, during a Data Period, or w/this DQ tag.
- Final output (clicking on “Finish” button):  
LB level criteria is applied at the final “Finish” stage.  
Output: A report showing the Run/LBs passing final criteria  
Output: An xml file (GoodRunList) which can be used by ELSSI etc.
- runBrowser IS NOT runQuery (browser to all online Runs in COOL)
- Enables not only Run selection by conditions criteria but also displays the possible values of remaining criteria and its relationship to other criteria
- Criteria can be imposed in any order ...
  - some choices open selection to deeper criteria
- Where appropriate:
  - Allows radio, checkbox, or text (command line) entry of criteria
  - Allow list and/or ranges of values, wildcards, case insensitivity ...
- Incorporate features to customize rows displayed and other tricks to improve performance

# ELSSI can now launch runBrowser

- ELSSI can launch runBrowser on the “temporal”
  - Choose the runBrowser radio button
  - Click on the green runBrowser button
    - launches runBrowser in new window
    - After Run/LB selection, click on FINISH, click on ELSSI button
    - RunLB xml result is returned into the text area below

**Selection Criteria**    <-- Back    Continue -->    Reset    Show Summary    Show Banner

Create query    Review query    Perform query

Temporal cut    Streams    Data Quality    Triggers    Physics attributes

Specify the Run range, Good Run list, runBrowser selection or the Time period for your temporal cut by selecting one of the radio buttons below.

Enter run range     Good run list     runBrowser     Time period

Import your run list from the XML result generated by using the **runBrowser** service.

[Large empty text area]



Click [here](#) to find out about future development plans...

- Click here for Purpose & Instructions

- SELECTION SUMMARY (empty) -

4474 runs left to choose from

You haven't made any selection yet...

## Run based selection...

- [Uploaded Runs](#) -

Yes  No

Reset

Submit

- Date range selection -

- Period Selection -

- Data Source -

- Run type -

- [Filename \(Project\) Names](#) -

AMI Tag Name Selection  
This optional textbox allows wildcards (%) in AMI Tag selection:  
  
Examples: '%m496%' (then press return)

- [DAQ Configuration](#) -  
This optional textbox allows wildcards (%) in DAQ Configuration selection:  
  
Examples: 'Schema=176:Data=454,Schema=206:Data=%' (then press return)

- Run number (4474 values to choose from) -  
This optional textbox allows multiple value and range selection:  
  
Example: '152409,152405-152407' (then press return)

# runBrowser Overview

- Note: “Under Construction”!
- Each section expands/collapses showing the available values
- Blue links:
  - [pop up documentation](#)
- Choose ANY criteria, ANY order, click SUBMIT
  - [runBrowser now tells you what is left ... iterate until you are happy](#)
- Selection Sections
  - [see next slide](#)
- Click on FINISH button
  - [when you are finished making selections](#)
  - [Shown after next slide](#)



Click [here](#) to find out about future development plans...

- Click here for Purpose & Instructions

- SELECTION SUMMARY (empty) -

4474 runs left to choose from

You haven't made any selection yet...

## Run based selection...

- [Uploaded Runs](#) -

Yes  No

Reset

Submit

- Date range selection -

- Period Selection -

- Data Source -

- Run type -

- [Filename \(Project\) Names](#) -

AMI Tag Name

This optional textbox allows wildcards (%) in AMI Tag selection:

Selection

Examples: '%m496%' (then press return)

- [DAQ](#)

[Configuration](#) -

This optional textbox allows wildcards (%) in DAQ Configuration selection:

Examples: 'Schema=176:Data=454,Schema=206:Data=%' (then press return)

- Run number (4474 values to

choose from) -

This optional textbox allows multiple value and range selection:

Example: '152409,152405-152407' (then press return)

# rB Selection Criteria

## Sections

1. Purpose / Instructions
2. Selection Summary
  - Starts out empty (stand-alone)
  - Starts with Collection (ELSSI)
3. Selection Criteria
  - A. [Uploaded Runs](#)
  - B. [Temporal Selection](#)
  - C. [Data Periods](#)
  - D. [Data Source \(data or MC\)](#)
  - E. [Run Type](#)
  - F. [Project Name \(FilenameTag\)](#)
  - G. [DAQ Configuration](#)
  - H. [Run Number](#)
  - I. [Stable Beams \(\\*\)](#)
  - J. [Ready Status Flag \(\\*\)](#)
  - K. [Trigger Master Key](#)
  - L. [Data Quality](#)
    - [Virtual Flags \(demo\)](#)

## Interface Links (ELSSI, RunBrowser):

- TAG Services portal:

<https://atlas-tagservices.cern.ch/>

(click on the latest versions)

## Documentation

- COMA Schema:

[http://www-pnp.physics.ox.ac.uk/~gallas/TAGs/Run\\_Metadata\\_ERD\\_1011.ppt](http://www-pnp.physics.ox.ac.uk/~gallas/TAGs/Run_Metadata_ERD_1011.ppt)

- COMA Tables:

[https://gallas.web.cern.ch/gallas/COMA\\_Tables.html](https://gallas.web.cern.ch/gallas/COMA_Tables.html)

- runBrowserReport:

[https://atlas-tagservices.cern.ch/RBR/rBR\\_Documentation.html](https://atlas-tagservices.cern.ch/RBR/rBR_Documentation.html)



Summarized: components of the COMA project

- COMA tables – the relational DB tables
- RunBrowser Package
  - runBrowser – the Browser interface for COMA
  - runBrowserReport – the Report interface for COMA

Data content/Interfaces under development to improve

- Functionality and Usability

Proposal on the table: make COMA the source for DataPeriods

- Technical challenge: Combines information from Conditions DB with human (expert) data entry
- Success in this area will demonstrate feasibility to use in the area of Data Quality and GRL integration

Many areas of activity not mentioned here

- An evolving/growing system

Success depends on user feedback

- [hn-atlas-physicsMetadata@cern.ch](mailto:hn-atlas-physicsMetadata@cern.ch)

# Backup

# COMA Summary

This is an evolving system ... current information in the system is growing based on information available and use cases

- Adding more dimensions to the Conditions data
  - With suitable relationships to facilitate queries
- Making that criteria available in a dynamic useable interface

We want to insure the Metadata is

- complete enough to satisfy use cases while
- reflecting accurately its limitations

Interfaces are being constructed to use selection syntax, criteria, and communication in common use in ATLAS

i.e. runQuery, GoodRunList xml ...

This facilitates cross checks with other systems

Continuous process: talking with various experts to ensure

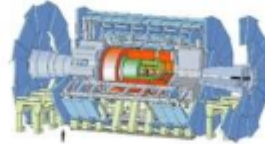
data integrity, completeness, compatibility w/other systems

... We've had positive informal feedback from physics and commissioning people so far ...

# ELSSI Portal: <https://cern.ch/tagsservices>



the **ATLAS Experiment**



Atlas WEB/PHP services for event selection via TAGs. For comments/suggestions please refer to [ATLAS Physics Metadata Hypernews](#)

## ELSSI Website for Relational TAGS

You must have a **grid certificate** for access. Please choose the server nearest you:

- [CERN ELSSI 04-00-03](#)
- [BNL \(USA, Brookhaven, NY\) ELSSI 03-01-01](#)
- [TRIUMF \(Canada, Vancouver\) ELSSI Portal](#)
- [RunBrowser Latest version\(00-04-00\)](#)
- [RunBrowser Previous version\(00-03-00\)](#)

### Information Twikis:

- [TUTORIAL: Using ELSSI, the Tag Database Portal](#)
- [Introduction to tags and tag content](#)
- [Production Visitors statistics \(awstats\)](#)
- [EventLookup Visitors statistics on the old lxvm0341](#)
- [Development Visitors statistics \(awstats\)](#)

Newest ELSSI production version

Tour of ELSSI starts here ...  
(<https://cern.ch/tagsservices>)  
Note: grid certificate required.

# Conditions MetadataA Runs Report

Run Number (runs) : 154817



Period **B,B1** Online Run Number **154817**, RunType **Physics**, Project **data10\_7TeV**  
 Duration **37719** seconds => (10:28:39), Luminosity Block Count [range] **325 [1-325]**  
 Recording started/ended: **2010-MAY-09 07:19:48 / 17:48:27**  
 Events recorded [L1,L2,EF]: **11348226** [42119282, 31651046, 9559223] in partition **ATLAS**.

Links to COMA Reports for Run 154817: [COMA \(self\)](#), [COMA RunList 154817](#).  
 Links to External Reports: [AMI](#), [RunList](#), [RunQuery \(short\)](#), [Trigger](#) (SMK 788), [PS Evolution](#).

## + AMI Tags for this Run:

## + Data Quality Assessments:

## + Prescale Evolution:

## - Triggers

This table summarizes the number of HLT chains which appear in the HLT chain tables below.

Total HLT chains (Physics + Other)	'Physics' (EF-L2-L1) Chains			'Commissioning' HLT Chains		
	Total	Active	Disabled	Total	Active	Disabled
659	617	504	113	42	24	18

NOTE !! Use this link to [Show/Hide grey Chains/Items](#) in the following HLT and Level 1 sections !!

- HLT\_Chains are grey when they are always disabled via prescale (prescale = -1) and passthrough (passthrough = 0) and never rerun for the entire Run.
- Level 1 Items are grey when they are passive (prescale = -1) during the entire Run, but their logical result is none the less written to the CTP word for all recorded events.
- Instructions for using the columnFilter text boxes (in the Chain/Item tables below) can be found here: [jQueryColumnFilters](#)

## + HLT Chains

## + Level 1 Items

## + COMA Load Status (expert):

# rBReport: single Run Overview

Each Yellow section expands ... This report has 5 Primary sections, the Trigger section has subsections

## General Run info

- [Period, LB range, Date ...](#)
- [Links to external reports](#)

## AMI tags for this Run

- [In the TAG Catalog schema](#)

## DQ LBSUMM assessments

- [COOL tagged/locked](#)

## Prescale Evolution

- [How many times did prescales change during the Run](#)

## Trigger section

- [Has an HLT summary](#)
  - [Counts of active/disabled](#)
- [Has expanding subsections](#)
  - [HLT Chains \(2 subsections\)](#)
    - [Physics](#)
    - [Commissioning](#)
  - [Level 1 Items](#)

## COMA Load Status

# runBrowserReport : Trigger Section

## Triggers

This table summarizes the number of HLT chains which appear in the HLT chain tables below.

Total HLT chains (Physics + Other)	'Physics' (EF-L2-L1) Chains			'Commissioning' HLT Chains		
	Total	Active	Disabled	Total	Active	Disabled
218	162	23	139	56	11	45

NOTE !! Use this link to [Show/Hide grey Chains/Items](#) in the following HLT and Level 1 sections !!

- HLT\_Chains are grey when they are always disabled via prescale (prescale = -1) and passthrough (passthrough = 0) and never rerun for the entire Run.
- Level 1 Items are grey when they are passive (prescale = -1) during the entire Run, but their logical result is none the less written to the CTP word for all recorded events.

## HLT Chains

### "Physics" EF-L2-L1 chains (162):

EF	L2	L1	EF_NAME	L2_NAME
318	318	17	EF_mbSpTrk	L2_mbSpTrk
393	393	17	EF_mbTrtTrk	L2_mbTrtTrk
93	93	64	EF_tauNoCut	L2_tauNoCut
575	575	64	EF_tauNoCut_SiTrk	L2_tauNoCut_SiTrk
750	750	64	EF_tauNoCut_cells	L2_tauNoCut_cells
631	631	96	EF_j10v3	L2_j7
848	848	96	EF_2j10_deta3_5	L2_2j7_deta3_5
851	851	96	EF_2j10_deta5	L2_2j7_deta5
1101	631	96	EF_j10v3_larcalib	L2_j7
632	632	97	EF_j20v2	L2_j15
849	849	97	EF_2j20_deta3_5	L2_2j15_deta3_5
633	633	98	EF_j40	L2_j30
850	850	98	EF_2j40_deta3_5	L2_2j30_deta3_5
634	634	99	EF_j80v2	L2_j60
1102	634	99	EF_j80v2_larcalib	L2_j60
636	636	100	EF_j200	L2_j130
635	635	102	EF_j140	L2_j90
842	842	104	EF_2j10	L2_2j7
853	853	105	EF_2j20	L2_2j15
854	854	108	EF_2j40	L2_2j30
117	117	119	EF_FJ18	L2_FJ18
639	639	127	EF_3j20	L2_3j15_test
739	739	152	EF_tauNoCut_cosmic	L2_tauNoCut_cosmic

### "Commissioning" HLT chains (56):

## Trigger Section of runBrowserReport for Run=142406

Run 142406 Trigger Summary shows:

has 23 active physics chains (of 162)

Click on the Show/Hide link

- to show/hide the grey rows of chain/items tables in respective subsections:
  - **HLT (show/hide disabled chains)**
    - **Physics (complete EF-L2-L1 chains)**
    - **Others (commissioning chains)**
  - **Level 1 (show/hide passive items)**

The trigger tables show the prescale range and PS,PT,RR flags of the new derived "Run Aggregate prescale" COMA tables

This new information allows:

ELSSI to show only chains which are "active" during the Run

link to rBR to show all chains.

Filename tag IN data09\_900GeV

**Remove all FILENAME\_TAG criteria**

Iterate any number of times

- Data Source -

- Run type -

- Date range selection -

- Filename (Project) Tag -

Filename Tag	# of Runs	Run Range	Run Date Range (UTC)
data09_900GeV	99	140541-142406	2009-NOV-23 09:08:35 - 2009-DEC-16 17:08:30

I choose Project "data09\_900GeV", then

there are 99 Runs left

their run and date range

- Trigger masterkey selection -

This optional textbox allows multiple value and range selection:

Example: '682,667-668' (then press return)

- DAQ Configuration selection -

This optional textbox allows wildcards (%) in DAQ Configuration selection:

Examples: 'Schema=176:Data=454,Schema=206:Data=%' (then press return)

- Run number (99 values to choose from) -

This optional textbox allows multiple value and range selection:

Example: '152409,152405-152407' (then press return)

# Example demonstrates General Principles:

- There is no prescribed order of selection or mandatory selections
- Expand section of interest, make selection:
  - available radio/checkbox or use the textbox to type a list or range of values
  - Click Submit
- I see the criteria has appeared in the selection summary
- I could remove it with button click
- I see ALL the other sections have changed to reflect this criteria !
- Look at the remaining 99 runs .. (next slide)

- Run number (99 values to choose from) -

This optional textbox allows multiple value and range selection:

Example: '152409,152405-152407' (then press return)

Run_Number	Run_Type	Start_Time_(UTC)	Duration_(sec)	#_of_LBs
<input type="checkbox"/> <a href="#">142406 (AMI,RQ,Trig)</a>	Physics	2009-DEC-16 10:25:40	24170	208
<input type="checkbox"/> <a href="#">142405 (AMI,RQ,Trig)</a>	Physics	2009-DEC-16 09:42:30	1038	11
<input type="checkbox"/> <a href="#">142404 (AMI,RQ,Trig)</a>	Physics	2009-DEC-16 07:26:31	6436	54
<input type="checkbox"/> <a href="#">142400 (AMI,RQ,Trig)</a>	Physics	2009-DEC-15 19:02:57	6856	71
<input type="checkbox"/> <a href="#">142397 (AMI,RQ,Trig)</a>	Physics	2009-DEC-15 15:33:17	12242	110
<input type="checkbox"/> <a href="#">142395 (AMI,RQ,Trig)</a>	Physics	2009-DEC-15 15:10:32	959	9

A limit of 6 rows is displayed (99 rows found). Increase the limit to  [\(huh?\)](#)

- Click on the Run Section to open it ... the run numbers appear
- Run selection is NOT mandatory ... you can go onto FINISH without any Run explicitly selected

The Run Section includes links to other systems

- Click on the Run Number → generates the runBrowserReport
- Other links are to AMI, RunList, and Trigger Reports for that Run number

Other related selections to be added to runBrowser2:

1. Run Duration
2. Number of LB
3. Number of Events Recorded

Next slide:  
runBrowserReport  
for Run number 142406



Click [here](#) to find out about future development

Run/Lumi Block xml Summary:

```
<?xml version="1.0"?>
<!DOCTYPE LumiRangeCollection SYSTEM
"LumiRangeCollection.dtd"><LumiRangeCollection>
<NamedLumiRange>
<Name>Run list from the runBrowser</Name>
<Version>1</Version>
</NamedLumiRange>
```



Send RunLB selection to ELSSI

A total of 13 Run(s) satisfy your Run-wise Criteria.

DQ-wise Metadata Criteria Summary:

No Detector Status Conditions Tag specified (no DQ criteria).

Report: Run / Lumiblock range(s) (meeting your criteria):

Run Number	Start LB	End LB
160530	1	628
160613	1	327
160736	1	268
160800	1	87
160801	1	432
160879	1	570
160899	1	156
160953	1	278
160954	1	273
160958	1	226
160963	1	19
160975	1	99
160980	1	122

# rB Finish Button

Output:

- GOOD RUNS LIST xml
  - w/link to send to ELSSI
- A humanly readable report...
  - Table of Run LB Ranges
  - List of criteria
  - Report of why particular LB ranges failed DQ criteria

-- This is a first release of "runBrowser"  
**But** the data content and functionality  
 is **still in development**.—

This version should give people an idea  
 of what the system will be able to do...  
 Ideas and feedback is very welcome!