



Borut Paul Kerševan, Junji Toyo

What is Metadata Physicists Want?



- The answer is everything related to a sample:
 - Statistics, visible cross-section (cross-section X gen. Efficiency), pcaches used, settings in event generation/G4/digi/reconstruction...
 - Good organization and presentation of this information is of the essence:
 - Links to more information on settings/parameters used.
 - Easy search and navigation.
 - 'Nice'/user friendly presentation.
 - An important point is the workload it presents as automated as possible..
 - The policy/aim is to have all the Metadata information available centrally in AMI.
 - Groups still use Twiki pages to track their production requests: We need to understand why!
 - It would be good if as little 'manual info as possible' would be present at the very least and as much as possible through AMI.

Recent Improvements..



- Links to twiki pages were added: e.g. for Geometry etc..
 - Some twiki links missing (easily added I think), like trigger configurations etc.. (we can work out a list).
- Automation: improvements for EvGen: the cross-section and gen. filtering eff. are now processed fully from jobOptions; and combined to give accurate predictions.
 - An ongoing effort within MC group to further improve on this for all MC generators.
- Possibility to extract bookmarks.
- Command line tools development.

Presentation



- A lot of information is available but the user interface somewhat 'technical'.
- Information organization sometimes organized according to production, not physics logic.
 - Example: somewhat difficult to get the sample cross-section:
 - One usually looks for AODs, then needs to use the 'provenance' since the cross-section info
 is only visible in the EVNT sample where it was picked.. (most common question on mail
 threads).
- Input from physics users on the design improvements?

Element's information		Children elements	
logicalDatasetName	mc09_7TeV.115257.PythiaUED_6_1000.merge.AOD.e590_s765_s767_r1427_r1429 DQ2 - GANGA export - Provenance - Series	prodsys_task	1 Records
		dataset_extra	14 Records
dataType 🏈	AOD	dataset_keywords	No records found
physicsCategory		dataset_comment	No records found
physicsCategory		files	2 Records
physicsSubCategory		jobOptions	No records found
physicistResponsible			
nFiles	2	field	fileType
totalEvents	9996	value	aod
physicsComment		field	beamType
physicsProcess		value	collisions
TransformationPackage	15.6.12.1	field	athenaopts
AtlasRelease	15.6.12	value	NONE
prodsysStatus	EVENTS_AVAILABLE	field	
version	e590_s765_s767_r1427_r1429		ignoreerrors
	Config_Tag - Datasets	value	NONE
datasetNumber	115257	field	omitvalidation
jobConfig		value	NONE
principalPhysicsGroup 🏈	phys-exotics		DBRelease TWIKI
physicsShort	PythiaUED_6_1000	field	
requestedBy	borut.kersevan@ijs.si	value	11.6.1
creationComment	MC09 production - EXOTICS	field	autoConfiguration

Navigation



- Contextual searches: One would like e.g. to find samples with GEO-10-08-00, done in May reprocessing by Egamma group and Pythia generator.
 - The two example cases will trigger complaints to me if people can't find the samples they requested:
 - Some inconsistencies like the physics group info propagation (e.g. on above example, I know the request exists but..)
 - Pileup samples mis-identified (this goes also for e.g. ProdDash..).
 - Reprocessing/campaign info not present:
 - We need to sort this out; it would be good to have a common place where prod. tags can be put in logical groupings and are accessible by AMI, ProDsys, DDM ... (we started the discussion on this in ADC). Currently only a couple of wikis and mail threads..

Other Considerations



- Conflicting information of Prodsys vs AMI vs DDM is a major source of confusion when it happens!
 - This should really be avoided if possible. Improve synchronization?
 - Unclear messages really need to be avoided: 'EVENTS
 AVAILABLE/DELETION STARTED' encountered a couple of times
 leading to a lot of panic..
 - Personally, I don't find metadata info being in several places a problem, if it helps:
 - e.g. I would love to be able to get the total AOD size for e/gamma group for May reprocessing by running a DDM command..
- What should be worked upon is the correct procedure for feature/development requests:
 - ▶ It happened that something I asked to be changed/added in ProdSys caused problems in AMI (e.g. new NTUP names, configuration changes..)