AGATA Construction Database

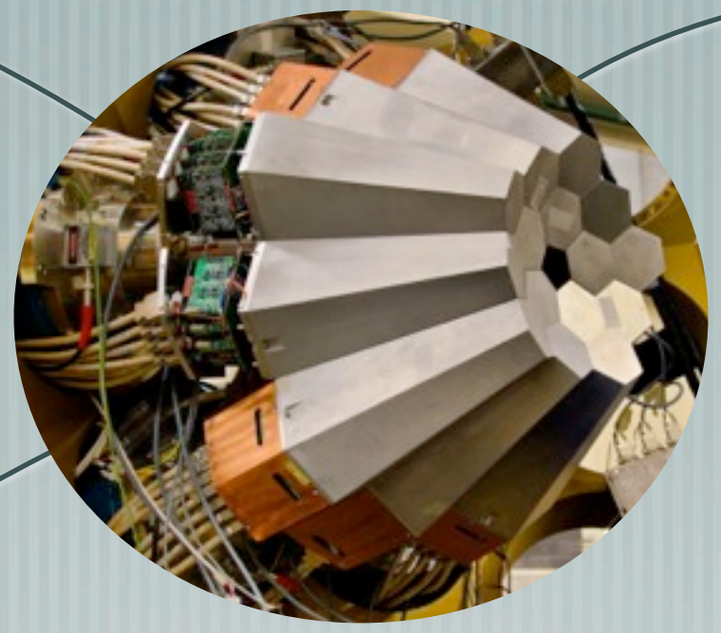
Status & perspectives

C.Aufranc, O.Stézowski, ADB contact persons, DSS team

AGATA France, Orsay, January 2014

AGATA is a long term project

Complex



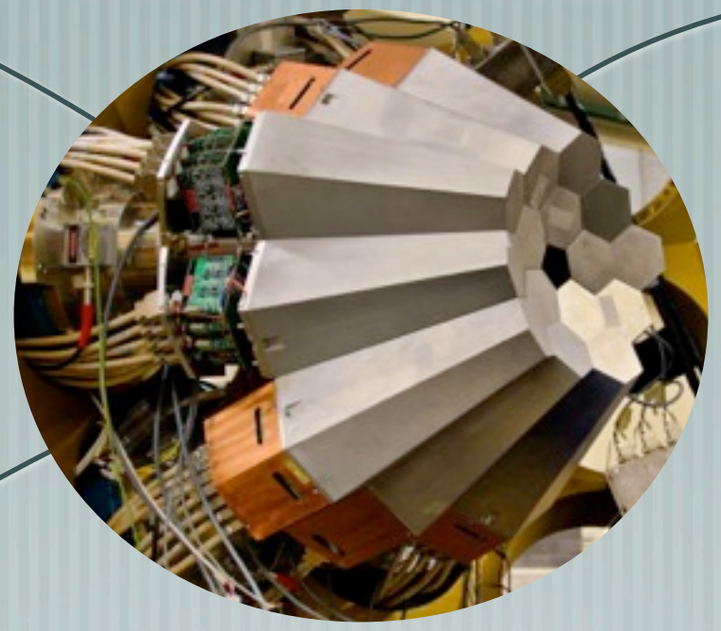
Moving

Growing

- centralize information
- keep history
  - ➥ Database !
  - ➥ ‘constrain’ for the collaboration

AGATA is a long term project

Complex



Moving

Growing

- centralize information
- keep history
  - ➥ Database !
  - ➥ '~~constrain~~' for the collaboration

opportunity ! Mandatory !

History and Current Status

- Decision by the AMB to have a detector database 2010

  ⇨ Definition of the structure of the DB ...

- Two campaigns LNL, autumn 2011
  bar code sticked + ref. in DB (~50%)
  used partially for transfer to GSI
- Two campaigns GSI
  bar code sticked + ref. in DB (in July, ~90%)

Take care of the bar codes !
[some digitizers not visible any more]

The IPNL DataBase Scheme

Objects are grouped by [NAME,TYPE,VERSION]
An object is uniquely referenced by a barcode

name | type | version | in a center, assembled, faulty [?]

- cube
  - blue
    - 1 → AA_1, AA_2, ...
    - 2 → BB_1, ...
  - red ...
- disk
  - green
    - 1 → CC_1

barcode policy !!

Many Actions* can be attached to any object

AA_n

examples

SPECIAL action	OWNER action	
...	...	
date	date	} common to all actions
operator	operator	
...	...	
results:string	owner	} specific to one action
	origin	
	reference	
	http link	

*Actions [list of fields] are comments, general information, measurements ...

History and Current Status

... since The Last AGATA Week ...

- ADB administration / improvements
  - 5 Video Conf. organized since 03/2013 [based on tasks]
    - ☛ DataBase Contact Persons +Daresbury, Madrid ... active network ...
- Cookbook for GUI (12 recipes so far)
  - ☛ already web site, video tutorials ...
- New GUI to fill Actions in ADB

http://agata.in2p3.fr/DB *agatadb_AT_ipnl.in2p3.fr*

History and Current Status

box DB-tasks.xlsx — Télécharger (5.6KB) | S'inscrire | Connexion

Tasks

Task List	Status	Assigned To	Created	Updated	Due date	Title	Hashtags		
AGATA	open	IPN Lyon	12/01/2013 21:53	12/19/2013 09:26	January 21, 2014	Define CAT and first record for all capsules	P1		
AGATA	hold		12/10/2013 09:14	12/16/2013 11:09	December 20, 2013	Add New digitizer in DB	Lyon		
AGATA	hold		12/12/2013 13:50	12/16/2013 11:09		Add information to digitizer Phase1	Daresbury	GSI	Lyon
AGATA	hold		12/12/2013 14:08	12/16/2013 11:09		Add relevant electronic information for digitizer	Strasbourg		
AGATA	hold		12/16/2013 10:32	12/16/2013 11:09	December 20, 2013	Transfert detector Cologne to GSI	Cologne	GSI	
AGATA	open	IPN Lyon	12/16/2013 10:51	12/17/2013 15:04	January 21, 2014	Bar code for Test TC to be delivered			
AGATA	hold		12/16/2013 10:53	12/16/2013 11:09		Special action on LVPS broken during DHL transfer	GSI		
AGATA	hold		12/16/2013 10:59	12/16/2013 11:09	December 20, 2013	Special Action to set which card have been upgraded to VH	Orsay	GSI	
AGATA	hold		12/16/2013 11:05	12/16/2013 11:09		Update assembly of digitizers	GSI		
AGATA	new		12/17/2013 17:47	12/17/2013 17:47		To take delivery of transfer of broken digitizer core modules	Daresbury		
AGATA	hold		01/13/2014 14:04	01/13/2014 14:04		To Take delivery of DPS_DIG_COR_002, VTRANS_GSI_0	Orsay		

- 5 Video Conf. organized since 03/2013 [based on tasks]

file available using web browser

Archived tasks

Task List	Status	Assigned To	Created	Updated	Due date	Title	Hashtags	
AGATA	resolved	IPN Lyon	12/11/2013 09:21	01/13/2014 14:02	December 18, 2013	Mail end of Year		
AGATA	resolved	IPN Lyon	12/16/2013 10:44	12/20/2013 10:07	December 19, 2013	Mail to Detector group to give the DB situation		
AGATA	rejected		12/16/2013 10:57	12/19/2013 10:32		Upgrade of old core digitizer	Strasbourg	

To Browse the Registered Objects

• Cookbook for GUI

1. Select the Inventory panel

2. Query !

or put (scan) a particular barcode

set filter on name, type, version of object(s) you look for information

additional filters

Here is the result after Query

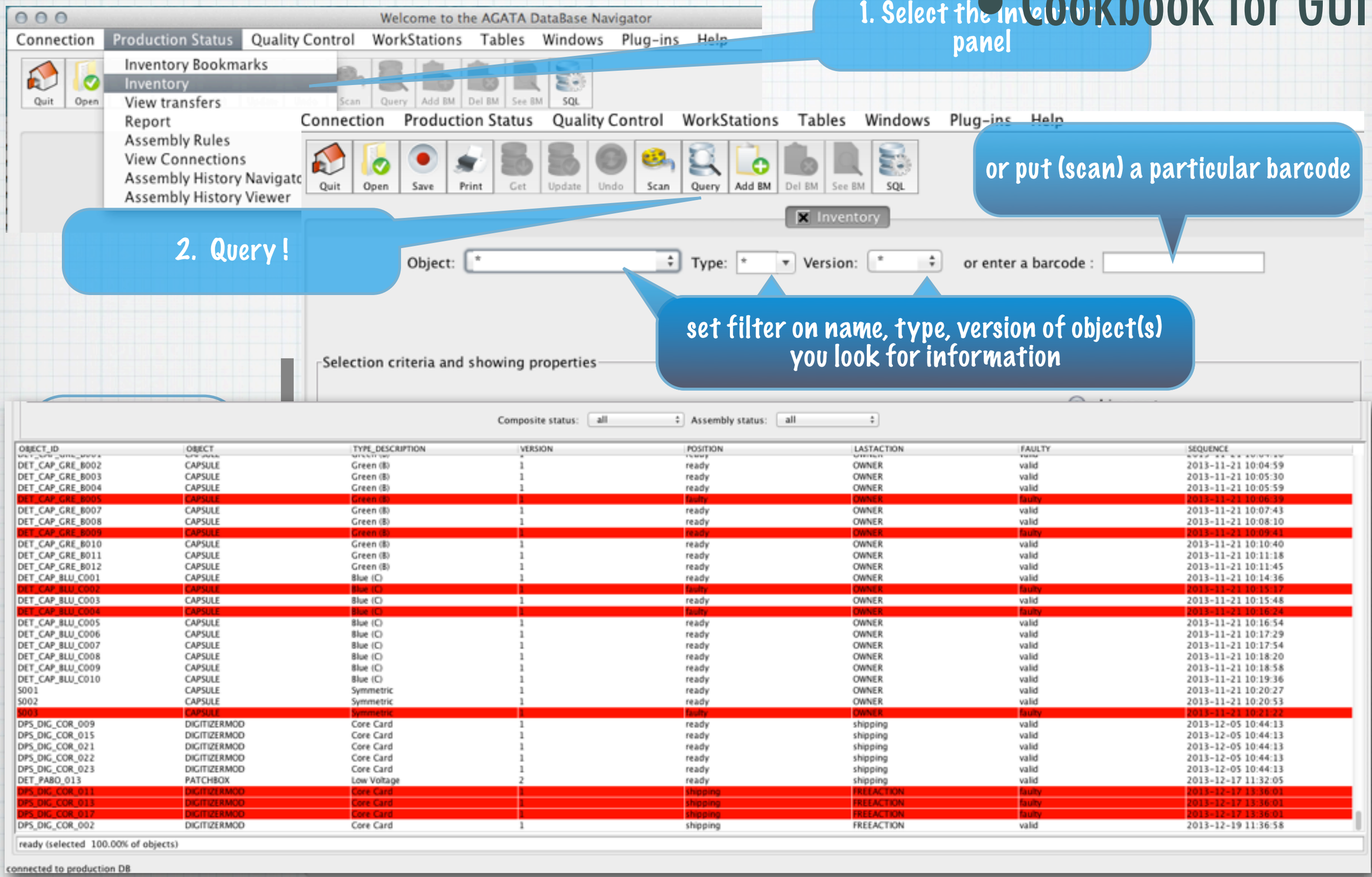
*** Careful ! ***
default is to show only not assembled objects
Change here for more

- by groups of obj.
- by individual obj.
- by individual + history

http://agata.in2p3.fr/VT/DB/index.html#InventoryPanel

To Browse the Registered Objects

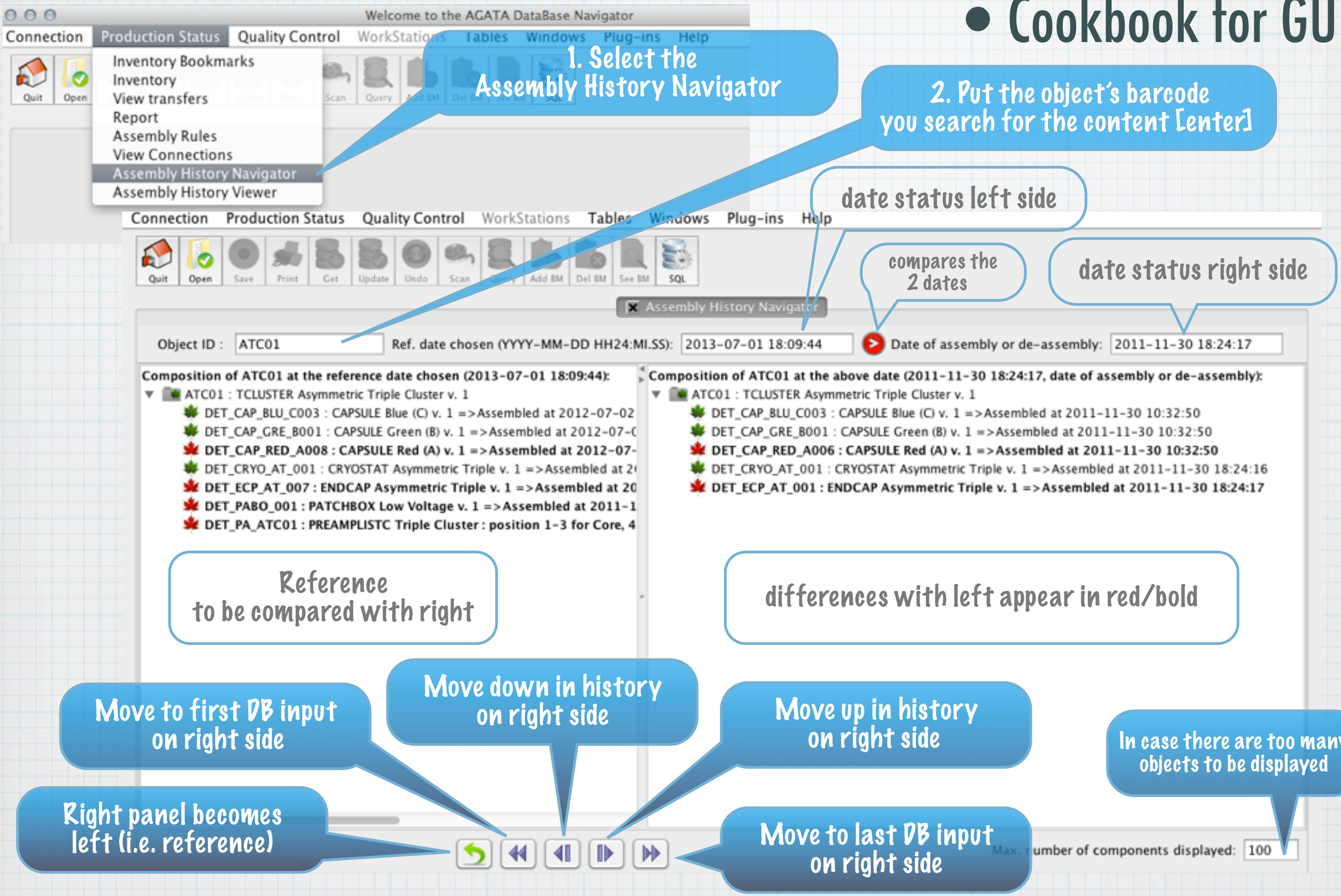
• Cookbook for GUI



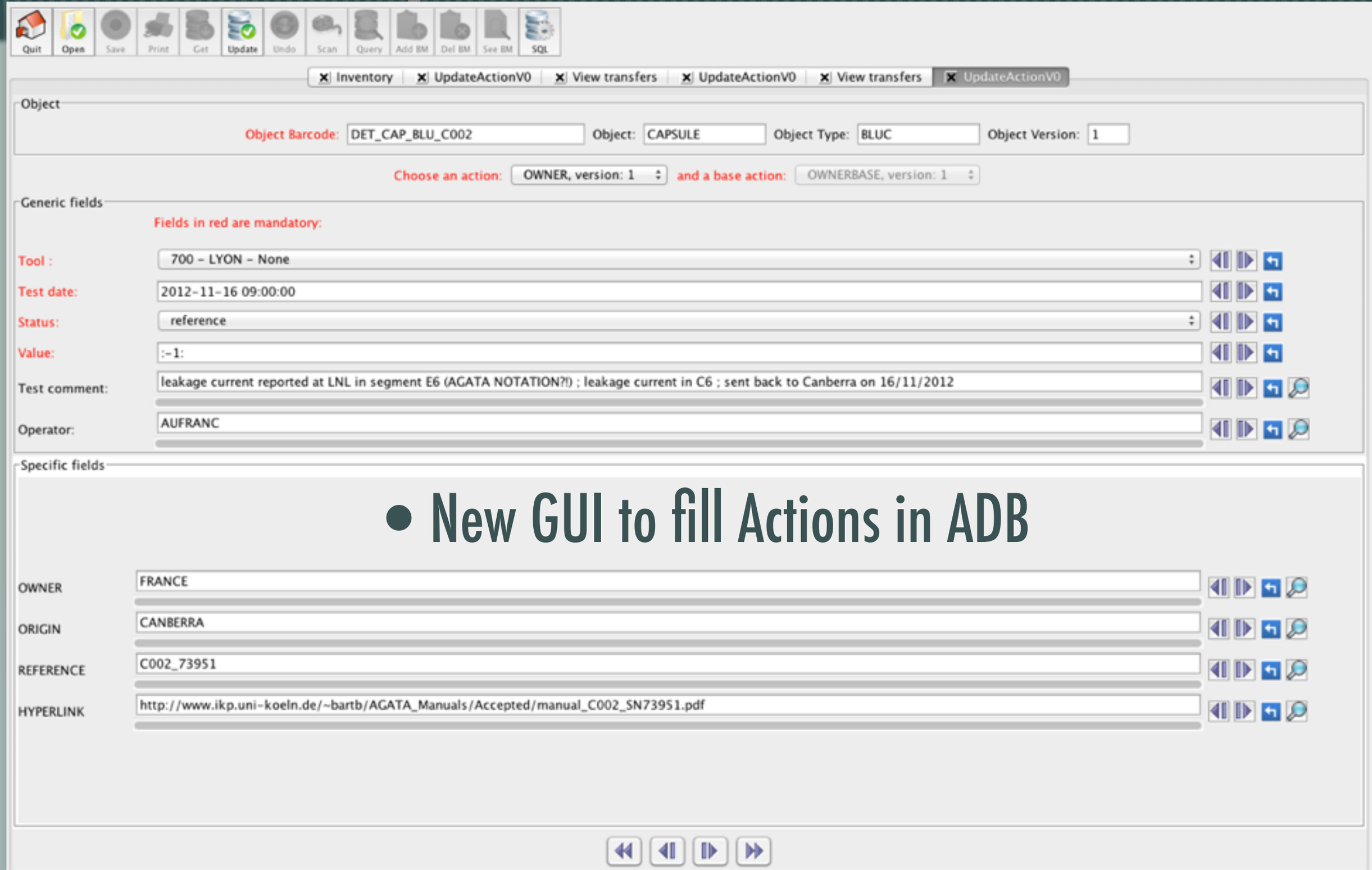
http://agata.in2p3.fr/VT/DB/index.html#InventoryPanel

To Browse an Object that contains Objects

- Cookbook for GUI



History and Current Status



- New GUI to fill Actions in ADB

History and Current Status

... since The Last AGATA Week ...

- ADB fillings, some important actions
  - DSS, LVPS, detector, Saclay has been active in using the DB
  - Digitizers
    information of old to be inserted + owner + IP/MAC + upgrades
    To finish the definition of new Pre Processing Chain (by next AW)
- Electronics ...
- Detector group ... we have tried to fill DB with input from Bart
- Detector group ... CAT operational in DB [production]
- GSI (Frederic) active in feeding the DB, not easy ...

everyone should be concerned !!!!!

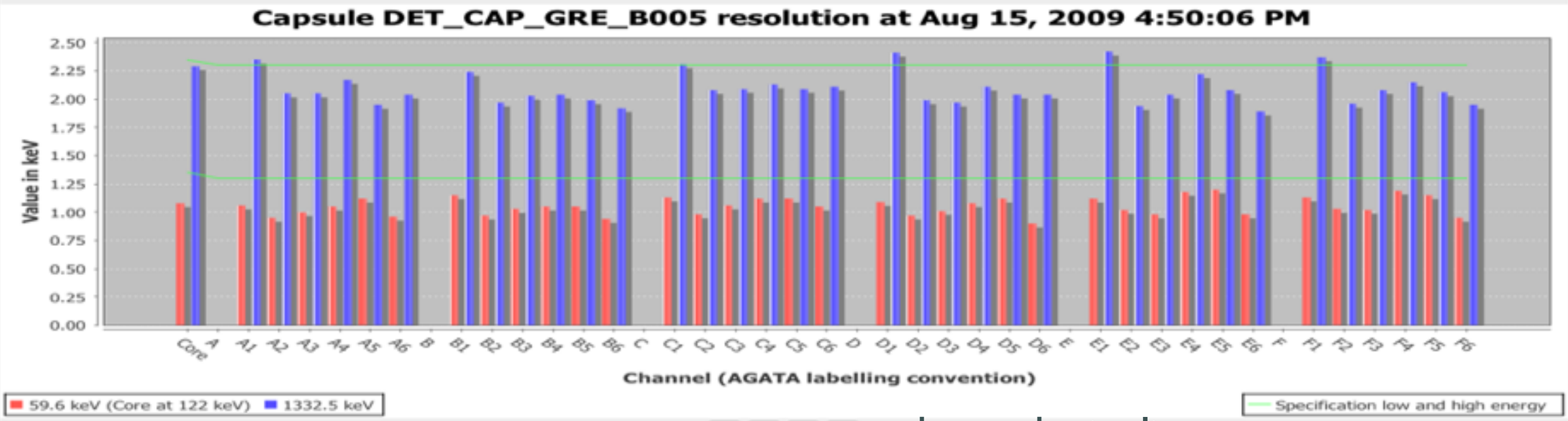
Welcome to the AGATA DataBase Navigator

Connection Production Status Quality Control WorkStations Tables Windows Plug-ins Help

Quit Open Save Print Get Update Undo Scan Query Add BM Del BM See BM SQL

Inventory | UpdateActionV0 | View transfers | UpdateActionV0 | View transfers | UpdateActionV0 | ResCapsV0

Barcode of the capsule: DET_CAP_GRE_B005 Center of the CAT: * Do plot/log Clear plot/log



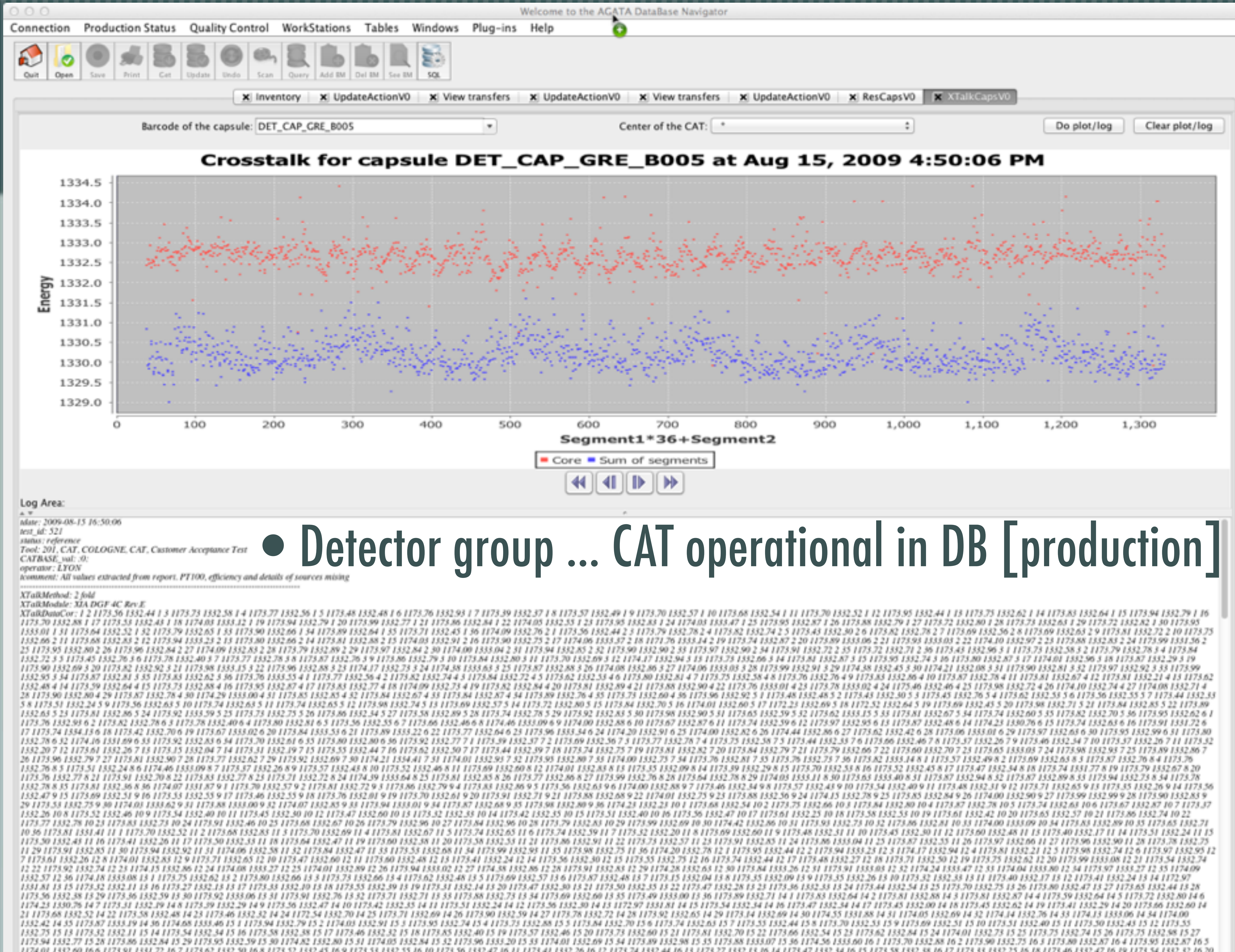
to browse the timeline

Log Area:

tdate: 2009-08-15 16:50:06
test_id: 521
status: reference
Tool: 201, CAT, COLOGNE, CAT, Customer Acceptance Test
CATBASE_val: :0:
operator: LYON
tcomment: All values extracted from report. PT100, efficiency and details of sources mising
---
Labelling code: IKP labelling convention: A1=1 A6=6 F6=36
ELowCor: 122
EHighCore: 1332.5
ELowSeg: 59.6
EHighSeg: 1332.5
NomiResLowCor: 1.35
NomiResHighCor: 2.35
NomiResLowSeg: 1.3
NomiResHighSeg: 2.3
ResLowCor: 1.08
ResHighCor: 2.29
ResLowSeg: 1.15 0.97 1.03 1.05 1.05 0.94 1.13 0.98 1.06 1.12 1.12 1.05 1.09 0.97 1.01 1.08 1.12 0.9 1.12 1.02 0.98 1.18 1.2 0.98 1.13 1.03 1.02 1.19 1.15 0.95 1.06 0.95 1.0 1.05 1.12 0.96
ResHighSeg: 2.24 1.97 2.03 2.04 1.99 1.92 2.31 2.08 2.09 2.13 2.09 2.11 2.41 1.99 1.97 2.11 2.04 2.04 2.42 1.94 2.04 2.22 2.08 1.89 2.37 1.96 2.08 2.15 2.06 1.95 2.35 2.05 2.05 2.17 1.95 2.04
Efficiency: null
StatusCaps : Accepted
Report : https://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B005_SN74065.pdf
Authors : B. Bruyneel, A. Wiens, D. Lersch, H. Hess, J. Eberth, P. Reiter
Preamplifiers : GANIL
MainAmplifier : standard ORTEC 572 spectroscopy amplifier
ShapingTime : 6
MCAType : PC based system
CapsPosition : 0
HighVoltage : 4500
TestCryostat : TestC4 / Serial Nr - 10045
PT100 : null
Sources : null
Channel : 1.0 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
object_id: DET_CAP_GRE_B005

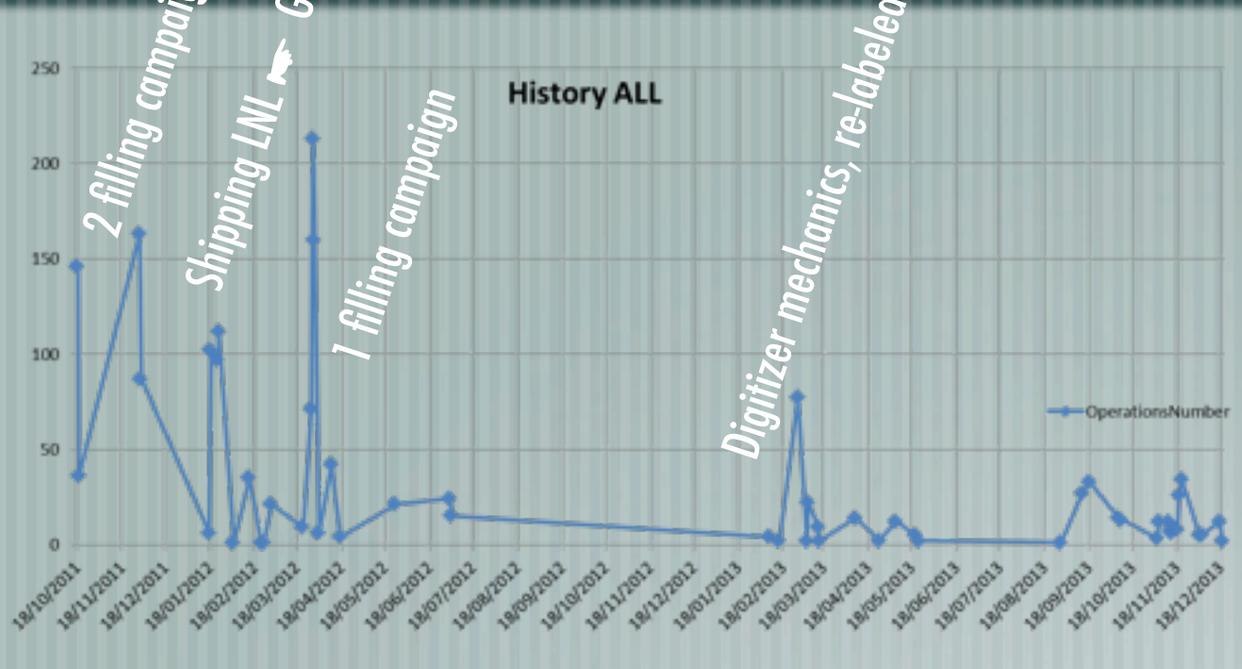
Full input given there

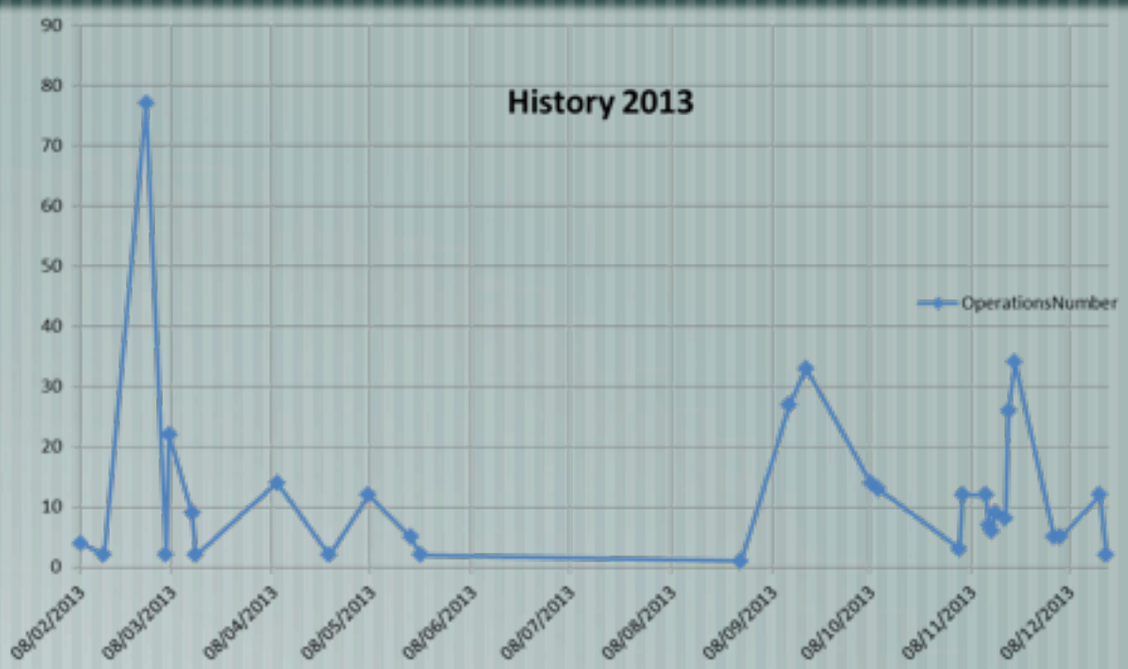
- Detector group ... CAT operational in DB [production]



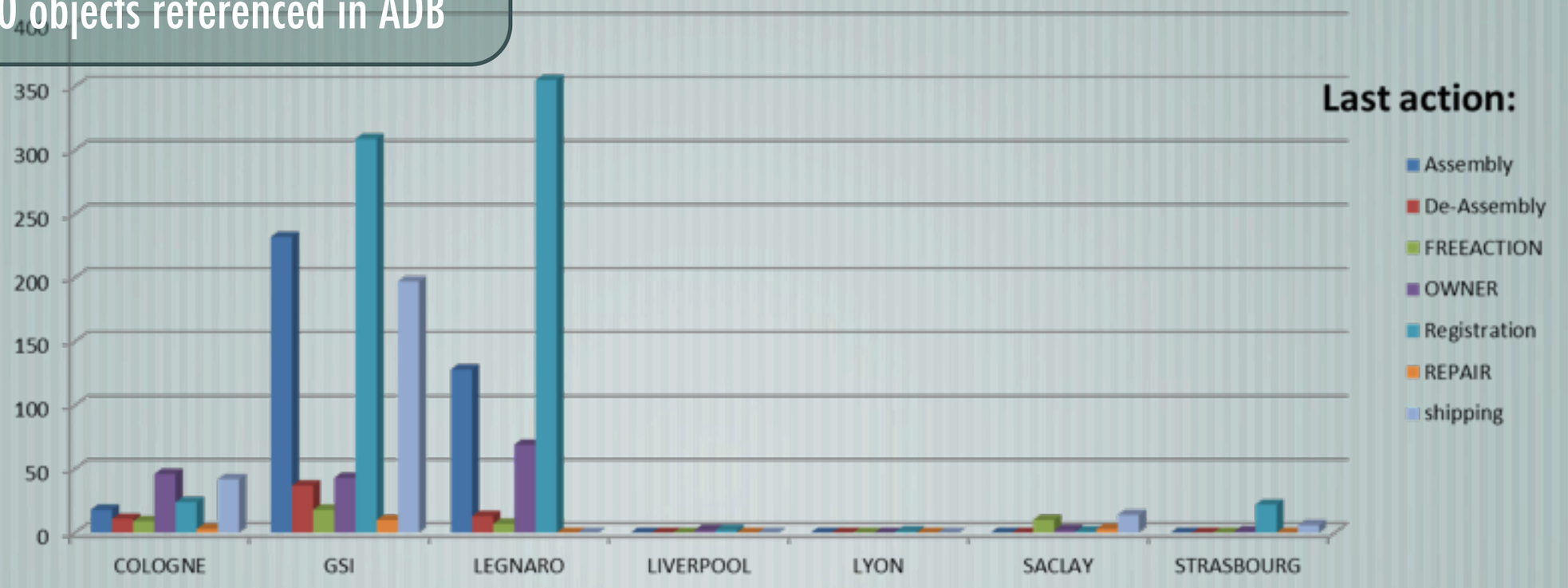
- Detector group … CAT operational in DB [production]

History and Current Status





Currently, 600 objects referenced in ADB



Conclusions & Perspectives

- A Detector Database exists !

  should be @ the source !

  Filled by campaigns ... not the best way ... faster, better !

  Active network to be reenforced ... everyone is concerned !

  DataBase Contact Person to help / video conferences - tasks approach

- Could be a great tool for the community ... the AMB ...

  history, traceability, ... ex: what was the AGATA conf 03/2013 ?

- It could / should grow:

  more objects (new ones, cables, connections ...)

  more informations (ownership of digitizers, CAT, etc ...)

  connection with DAQ ?

- Work is done to improve the Graphical User Interface

When / Who / How to use the DataBase

barcode sticked + registration panel

1: a new object
[name,type,version]

Inventory panel

Status checked by users
BigBrowser GUI

2: assembled ?

Assembly panel

Assembly_special panel

special panel

Special_Repair panel

UpdateAction panel

+ tests
Ex: CAT
+ more infos
Ex: owner

3: object sent

transfer panels

modification ?

broken

object back

+ transfer in DB

object sent for repairing

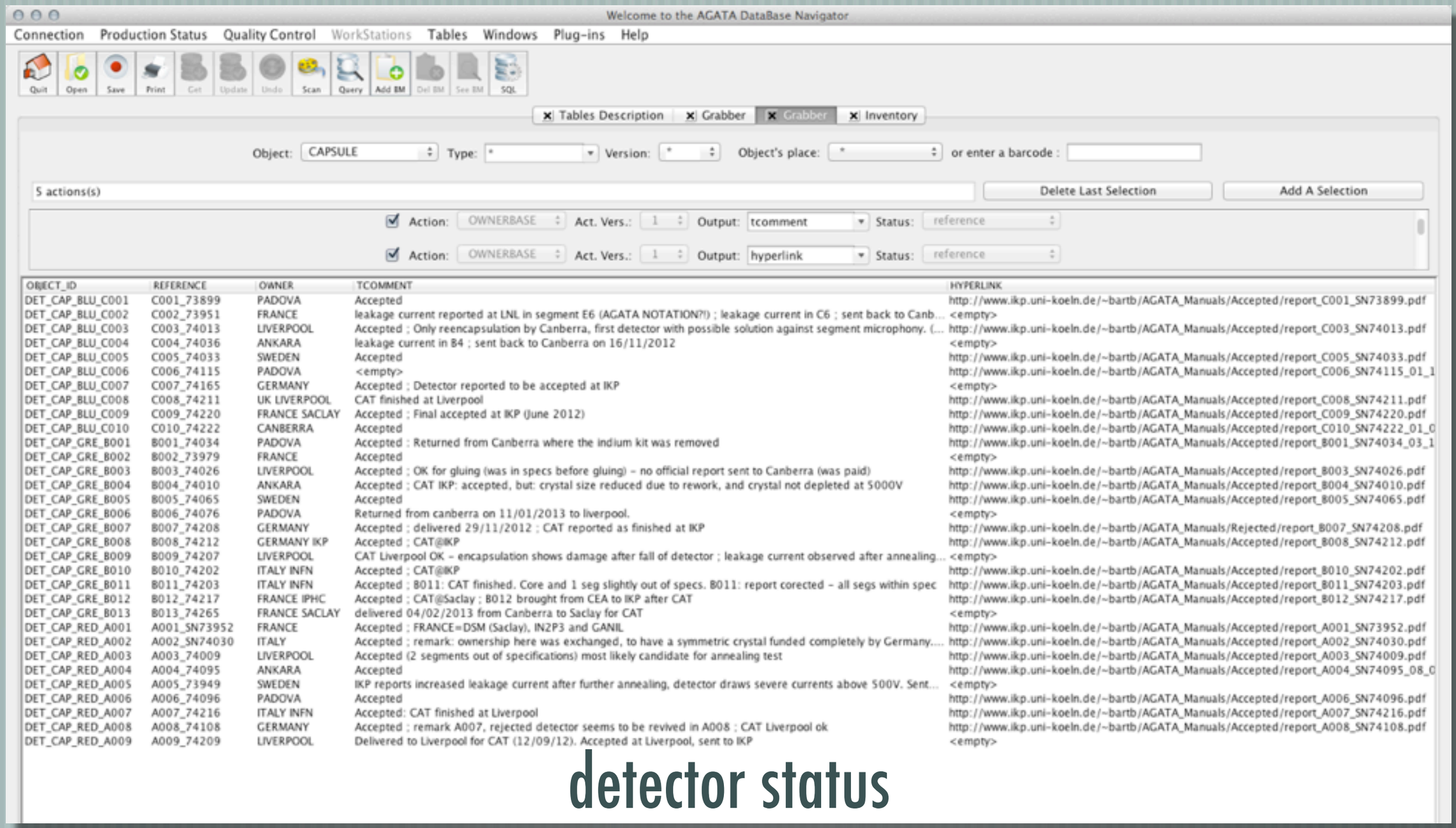
repaired

list of transferred objects
operators identified
mail automatically sent

LNL/GSI/GANIL ...

interaction with DB required

Some recents updates in ADB



OBJECT_ID	REFERENCE	OWNER	TCOMMENT	HYPERLINK
DET_CAP_BLU_C001	C001_73899	PADOVA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C001_SN73899.pdf
DET_CAP_BLU_C002	C002_73951	FRANCE	leakage current reported at LNL in segment E6 (AGATA NOTATION?!) ; leakage current in C6 ; sent back to Canb...	<empty>
DET_CAP_BLU_C003	C003_74013	LIVERPOOL	Accepted ; Only reencapsulation by Canberra, first detector with possible solution against segment microphony. (...	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C003_SN74013.pdf
DET_CAP_BLU_C004	C004_74036	ANKARA	leakage current in B4 ; sent back to Canberra on 16/11/2012	<empty>
DET_CAP_BLU_C005	C005_74033	SWEDEN	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C005_SN74033.pdf
DET_CAP_BLU_C006	C006_74115	PADOVA	<empty>	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C006_SN74115_01_1
DET_CAP_BLU_C007	C007_74165	GERMANY	Accepted ; Detector reported to be accepted at IKP	<empty>
DET_CAP_BLU_C008	C008_74211	UK LIVERPOOL	CAT finished at Liverpool	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C008_SN74211.pdf
DET_CAP_BLU_C009	C009_74220	FRANCE SACLAY	Accepted ; Final accepted at IKP (June 2012)	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C009_SN74220.pdf
DET_CAP_BLU_C010	C010_74222	CANBERRA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_C010_SN74222_01_0
DET_CAP_GRE_B001	B001_74034	PADOVA	Accepted ; Returned from Canberra where the indium kit was removed	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B001_SN74034_03_1
DET_CAP_GRE_B002	B002_73979	FRANCE	Accepted	<empty>
DET_CAP_GRE_B003	B003_74026	LIVERPOOL	Accepted ; OK for gluing (was in specs before gluing) - no official report sent to Canberra (was paid)	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B003_SN74026.pdf
DET_CAP_GRE_B004	B004_74010	ANKARA	Accepted ; CAT IKP: accepted, but: crystal size reduced due to rework, and crystal not depleted at 5000V	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B004_SN74010.pdf
DET_CAP_GRE_B005	B005_74065	SWEDEN	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B005_SN74065.pdf
DET_CAP_GRE_B006	B006_74076	PADOVA	Returned from canberra on 11/01/2013 to liverpool.	<empty>
DET_CAP_GRE_B007	B007_74208	GERMANY	Accepted ; delivered 29/11/2012 ; CAT reported as finished at IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Rejected/report_B007_SN74208.pdf
DET_CAP_GRE_B008	B008_74212	GERMANY IKP	Accepted ; CAT@IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B008_SN74212.pdf
DET_CAP_GRE_B009	B009_74207	LIVERPOOL	CAT Liverpool OK - encapsulation shows damage after fall of detector ; leakage current observed after annealing...	<empty>
DET_CAP_GRE_B010	B010_74202	ITALY INFN	Accepted ; CAT@IKP	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B010_SN74202.pdf
DET_CAP_GRE_B011	B011_74203	ITALY INFN	Accepted ; B011: CAT finished. Core and 1 seg slightly out of specs. B011: report corected - all segs within spec	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B011_SN74203.pdf
DET_CAP_GRE_B012	B012_74217	FRANCE IPHC	Accepted ; CAT@Saclay ; B012 brought from CEA to IKP after CAT	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_B012_SN74217.pdf
DET_CAP_GRE_B013	B013_74265	FRANCE SACLAY	delivered 04/02/2013 from Canberra to Saclay for CAT	<empty>
DET_CAP_RED_A001	A001_SN73952	FRANCE	Accepted ; FRANCE=DSM (Saclay), IN2P3 and GANIL	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A001_SN73952.pdf
DET_CAP_RED_A002	A002_SN74030	ITALY	Accepted ; remark: ownership here was exchanged, to have a symmetric crystal funded completely by Germany....	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A002_SN74030.pdf
DET_CAP_RED_A003	A003_74009	LIVERPOOL	Accepted (2 segments out of specifications) most likely candidate for annealing test	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A003_SN74009.pdf
DET_CAP_RED_A004	A004_74095	ANKARA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A004_SN74095_08_0
DET_CAP_RED_A005	A005_73949	SWEDEN	IKP reports increased leakage current after further annealing, detector draws severe currents above 500V. Sent...	<empty>
DET_CAP_RED_A006	A006_74096	PADOVA	Accepted	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A006_SN74096.pdf
DET_CAP_RED_A007	A007_74216	ITALY INFN	Accepted: CAT finished at Liverpool	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A007_SN74216.pdf
DET_CAP_RED_A008	A008_74108	GERMANY	Accepted ; remark A007, rejected detector seems to be revived in A008 ; CAT Liverpool ok	http://www.ikp.uni-koeln.de/~bartb/AGATA_Manuals/Accepted/report_A008_SN74108.pdf
DET_CAP_RED_A009	A009_74209	LIVERPOOL	Delivered to Liverpool for CAT (12/09/12). Accepted at Liverpool, sent to IKP	<empty>

detector status

Some recents developments

- We are trying to improve the DB interface (BigBrowser):
  + on click, photos of typical objects
  + faulty objects highlighted in red color

- Specific GUI are developed:
  + CAT*
  + navigation through history of assemblies

* not new, already shown @ previous AGATA Week