



Dashboard Latency monitoring (Update)

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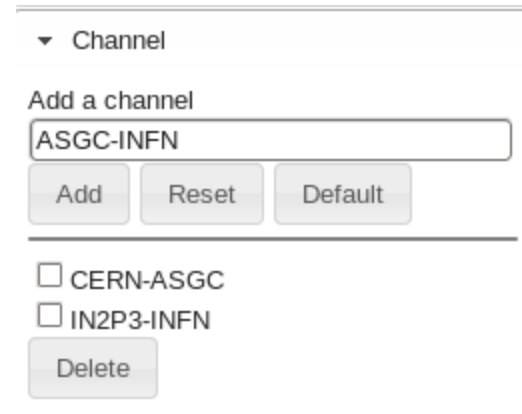
- Status after first proposal
- Current DB and collector status
(credit to Daniel)
- Current UI status
- Demo
- Future

- DB and DAO:
 - Single events table
 - Investigate NULL in complete timestamp VS BitMap index
- User Interface:
 - 2 Pie charts : breakdown by VO and server.
 - 2 Column charts: breakdown by VO and server + hourly bins
 - All filter should be applied
 - Details view when clicking on graphs

- First approach (Demo only):
 - A table keep track of active transfers (collector create / remove entry in the table)
 - Inserting is fine whatever the number of messages
 - Deleting seems to be the bottleneck when number of messages is growing
- Second approach (merge based):
 - Works but history is not kept

- Still under investigation:
 - Previous method can't fit to our number of messages
 - Plans: Oracle stored procedure will read existing table (t_transfer_start and complete) to populate t_transfers (join)
 - Investigation: What is the maximum size of t_transfers to run properly? 6h, 12h, 1d, 1w ???

- All requirements have been reached
(Except when clicking in “other” on charts)
- Design allows to add easily more breakdown:
(channel, source country, ...)
- Investigation how to add a filter by channel:
 - Impossible to list all the channels (about 720)
 - A text box should be enough?



Channel

Add a channel

Add Reset Default

CERN-ASGC

IN2P3-INFN

Delete



- New toolbar:

Type of the chart:

- Stack, column (col chart)
- Sum (pie chart)

Size of the bins:

- 5 / 10 / 15 / 20 / 25 / 30 minutes
- Hourly



Possible breakdown:

- Vo
- Endpnt / server
- Channel
- Src/dest country/site

Number of series / bins you want to display:
1-10

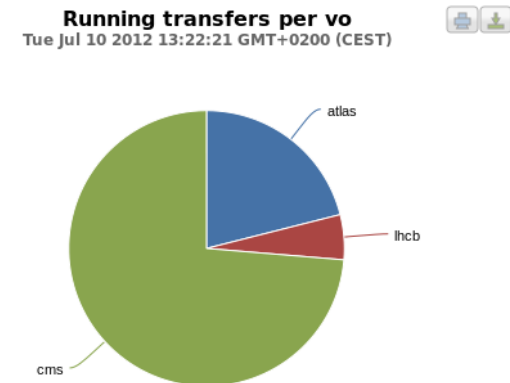
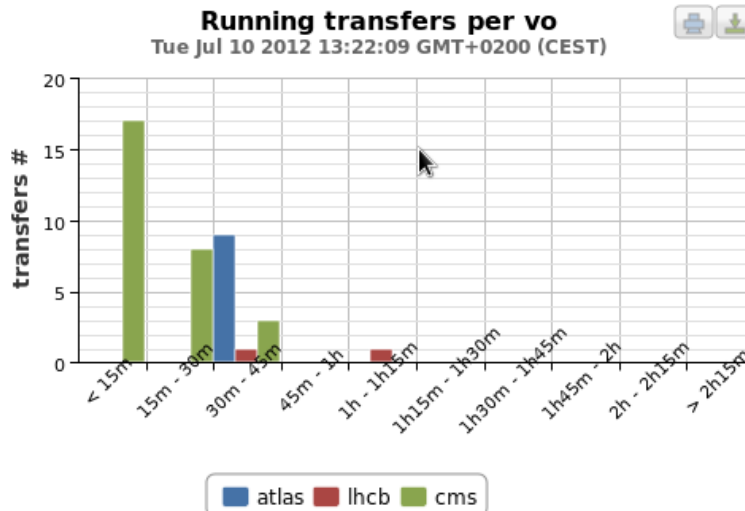
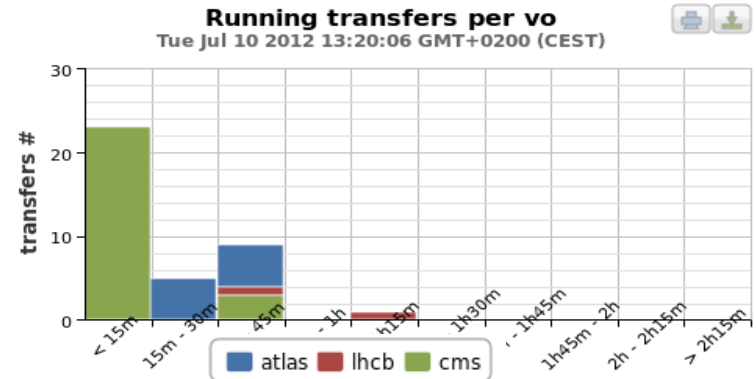
- A same information can be present in multiple formats:

TYPE ▾

Standard

Column

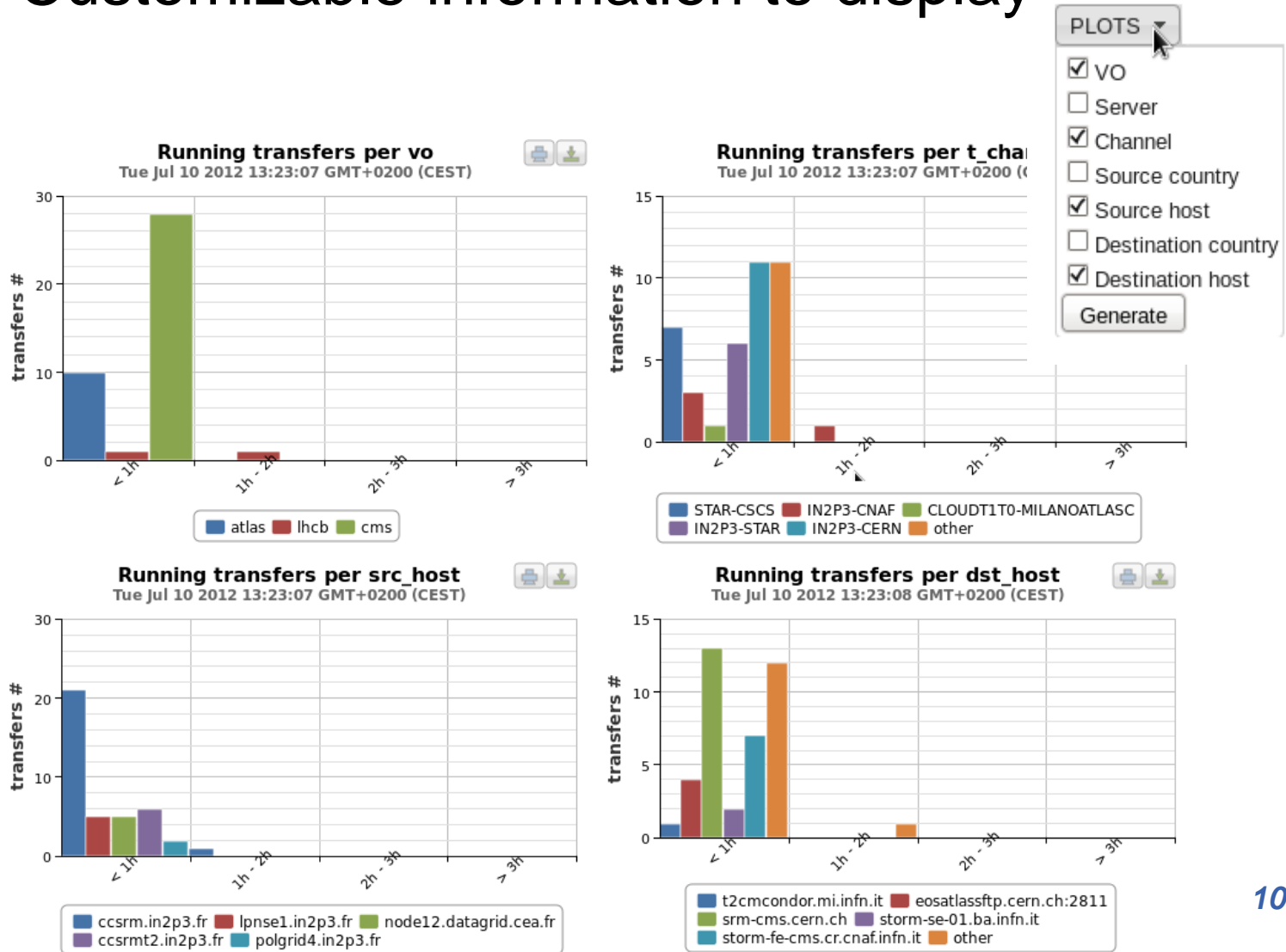
Sum



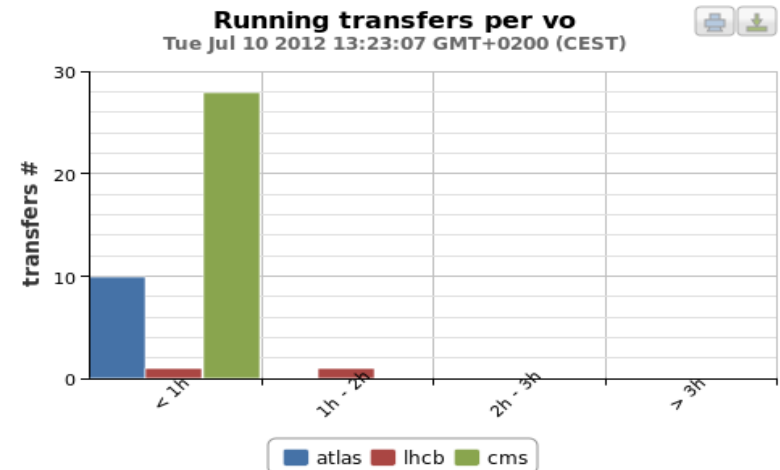
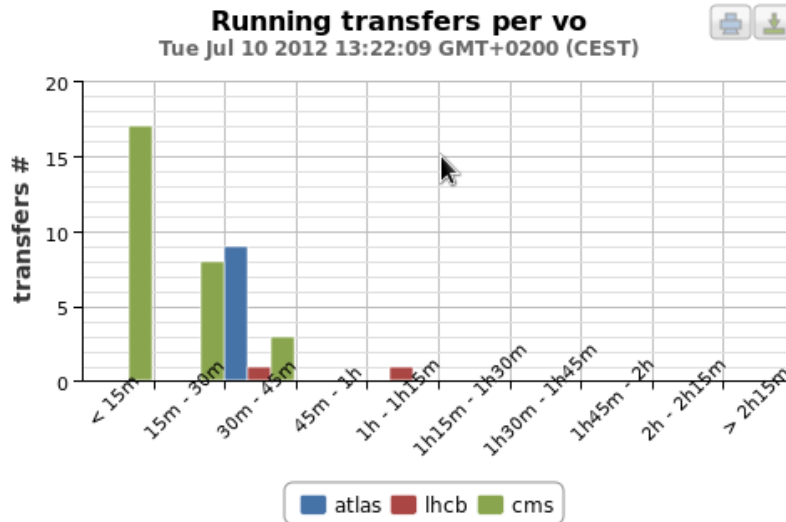
date

Author etc

- Customizable information to display



- Customizable size and number of time bins:



- Directly related to active transfers monitoring
 - Work with Daniel on the DB
 - Work with David on xbrowse
 - Code refactoring
- Beyond “ATM”: historical data
 - Investigation with Daniel on statistics for t_transfers
 - Plot suggested by Josep Flix for CMS:
 - Channel occupancy
 - Througput / Streams
 - SRM overhead



Thanks for your attention