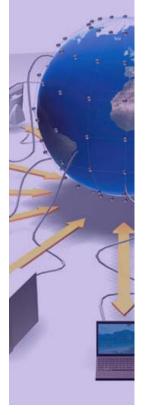
Grid Support





FTS Monitoring

Ricardo Rocha

WLCG 2008 Data-Taking Readiness Planning Workshop

14th November 2008

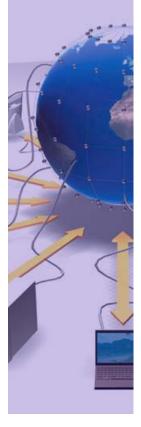
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FTS Dashboard Summary



- Work done by Alexander Uzhinskiy and Andrey Nechaevskiy
- Built using the dashboard framework
- Requires SLC4 FTS
- Different use cases for different people
 - Site administrators / operators
 - Channel settings, real time activity, summaries of errors, ...
 - Grid and VO managers
 - Historic data (daily, weekly, monthly, ...) on channels and site activity
- Tight integration with the other FTS components
 - Extension to the existing database backend (but not touching any of the existing objects)
 - Relying on the existing error classification when generating summaries
 - https://twiki.cern.ch/twiki/bin/view/EGEE/FTSErrorClassification
- Flexibility allowing creation of new monitoring *objects*



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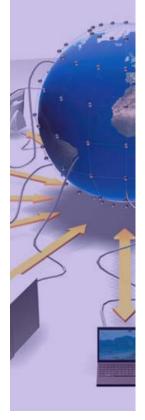


Available Data





- Per source site, destination site, VO
- Throughput, number of files transferred, average retries, ...
- Activity Snapshots
 - Real time view channel activity, queues, file states, ...
- Error Summaries, by:
 - Scope: Source, Destination, Transfer
 - Category: File Exists, No space left, GridFTP error, ...
 - Phase: Allocation, Preparation, Transfer
 - Message: Pattern matching (400 and growing...)
- Channel Settings
 - Same as the glite-transfer-* command line but in a nice web interface
- Agent Status
- Automated Reports



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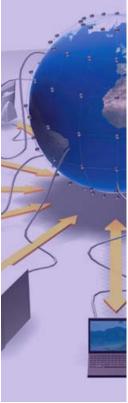


Examples



Multiple Filters





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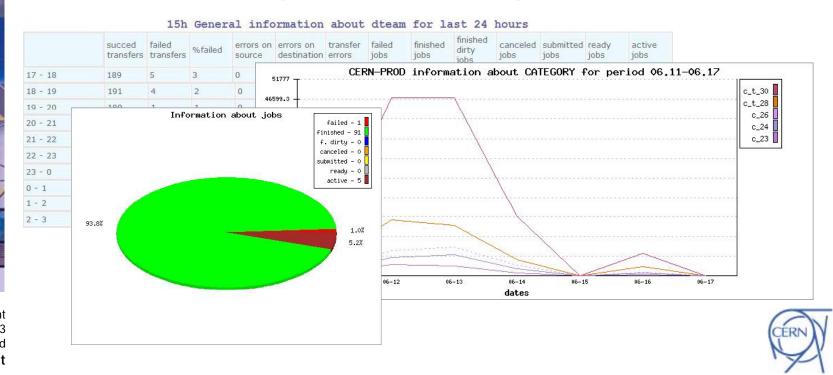
Examples



Multiple Filters



Multiple Visualization Options





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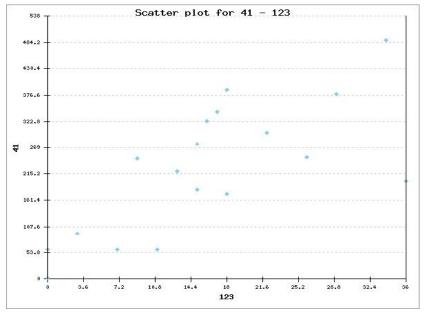


Examples



Statistics Tools





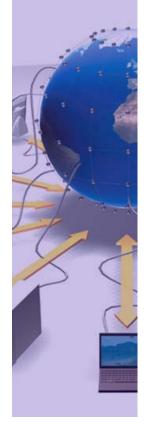


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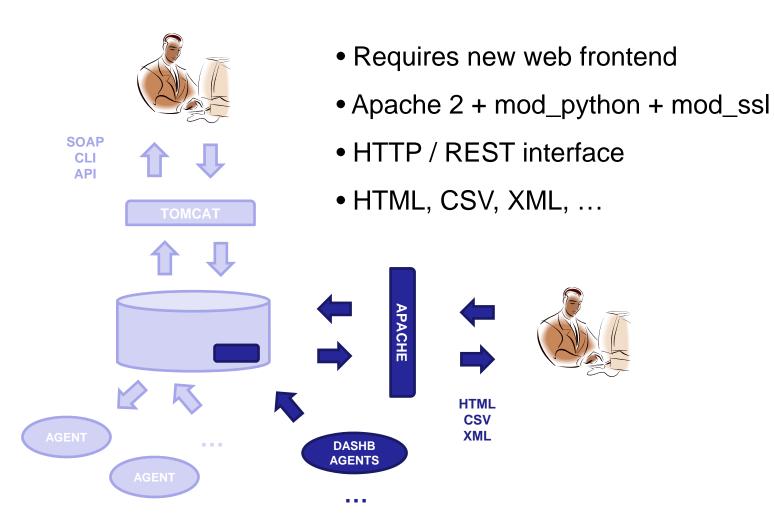


Deployment





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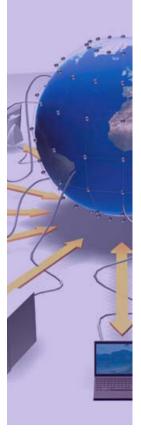




Planning



- Application tested in the FTS pilot instance
- Next steps
 - 1) Finish Packaging
 - SLC4 RPMs are available
 - Integrate with package configuration tools (quattor, yaim)
 - It will be a module of the FTM node
 - 2) Deployment at CERN
 - Implement missing features, fix bugs, re-pilot
 - Then deploy at the CERN production instance
 - 3) Rollout to Tier1s

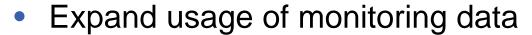


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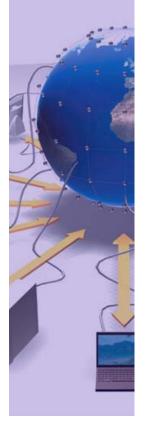


Future





- By making it available to other tools
- Channel / site activity messages put into the MSG system, available for subscription
- First use case: an overview of all WLCG data movement activity
 - Collection of summary data from all FTS instances (subscription to all monitoring messages)
 - GridMap (or other visualization widgets like google earth?)
 on top, linking back to local dashboards



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