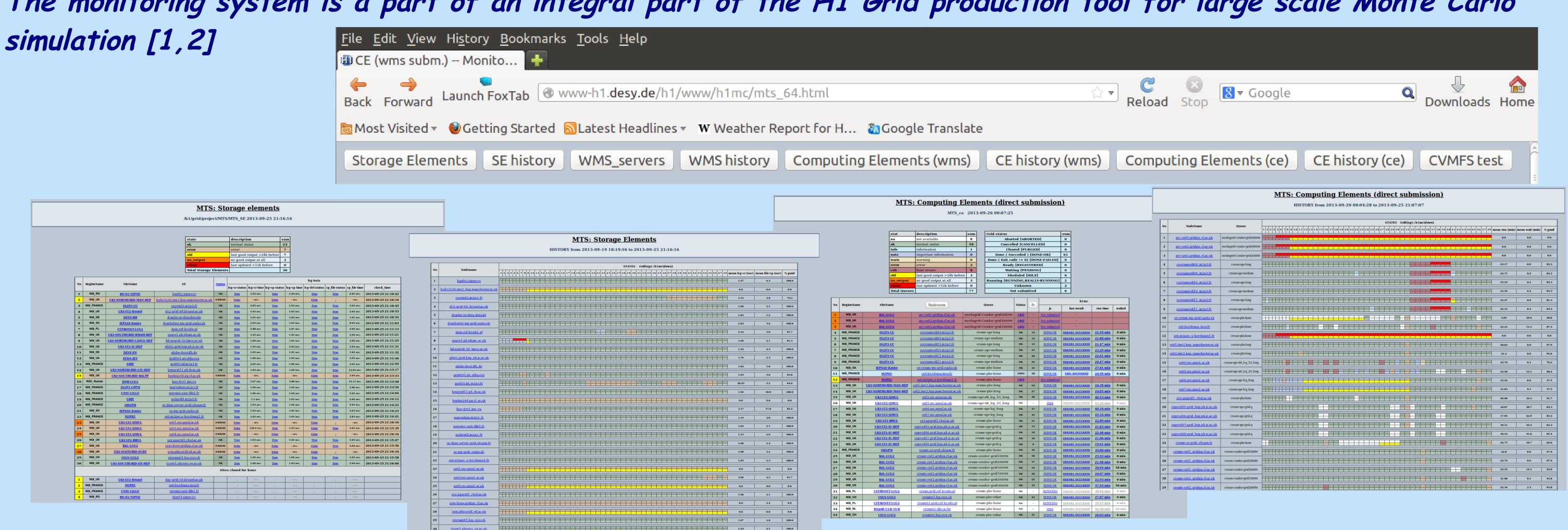


Monitoring System for the Grid Monte Carlo Mass Production in the H1 Experiment



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The monitoring system is a part of an integral part of the H1 Grid production tool for large scale Monte Carlo



EDG GRID MONITORING TOOL

Information about the status of available resources is collected from the periodically running monitoring tool [Configuration management]

Evaluation criteria:

- * existence of the resource in the LCG info
- · job is not canceled & not aborted
- ~ access to the nearest storage element
- execution time:

accepted if < assumed maximal time of execution

vaiting time:

Monte

Carlo

Request

accepted if < assumed maximal pending time

MONITORING OF THE PRODUCTION STATUS

Information collected from the current MC

production data [Configuration management]

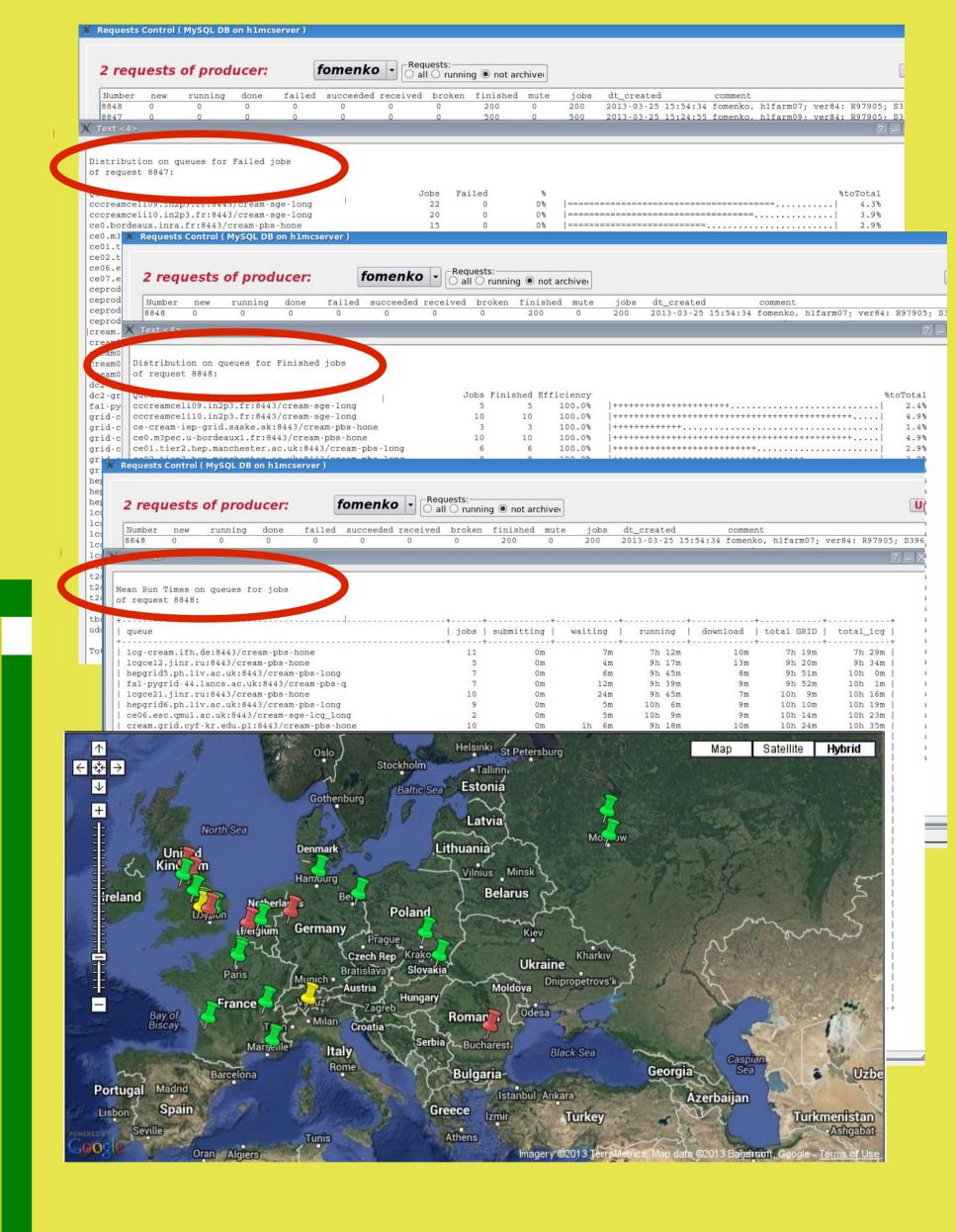
Calculated parameters:

- · Percentage of failed jobs per Computing Element (CE)
- Additional set of variables defined by the MC operators

Monitoring Storage MySQL DB

Current list of available resources on the EDG Grid [configuration files]

Grid access framework



List of available resources used for mass production:

- ~ available WMS
- · available Computing Elements: CE CREAM-CE, ARC-CE

List of the BEST resources used for high priority jobs

List of NOT available resources: Subject for creation of the GGUS Trouble Ticket and further investigations

TEST MANAGEMENT SERVICE:

- Storage Element (SE) Services:
- Checking of: list, read, write, replication, available space (if possible), access to the main Storage Element and the time of the command execution
- Resources: CVMFS, local storage, nearest Storage element
- •Computing Element (CE) Services:
- Checking of: job runtime, waiting time, availability for the HONE VO
- Existence in the information Services
- Submission through the WMS services
- Submission to the ARC-CE
- Direct submission to the CREAM-CE
- Workload Management Services (WMS):
- Existence in the information Services
- Job-match time
- Submission result & time of the test
- Cancellation result & execution time
- •LCG File Catalog:

check the access to the LFC catalog from all available computing sites



1. B. Lobodzinski et al. 2010 J.Phys.: Conf. Ser. 219 072040

