

# Common accounting system for monitoring the ATLAS Distributed Computing resources

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## Introduction

ATLAS data are distributed, processed and analysed at more than 130 grid and cloud sites across the world within the Worldwide LHC Computing Grid. The total throughput of transfers is more than 5 GB/s and data occupies more than 120 PB on disk and tape storage. At any time, there are more than 100000 concurrent jobs running and more than a million jobs are submitted every day. Effective monitoring is essential to identify and address any issues with the infrastructure. Experiment Dashboard offers a common accounting system used to monitor the utilisation of the available computational and storage resources of ATLAS.

## Architecture

- ✓ Loose coupling to information sources adds flexibility to the system
- ✓ Shared between ATLAS and CMS
- ✓ Database-agnostic Web User Interfaces

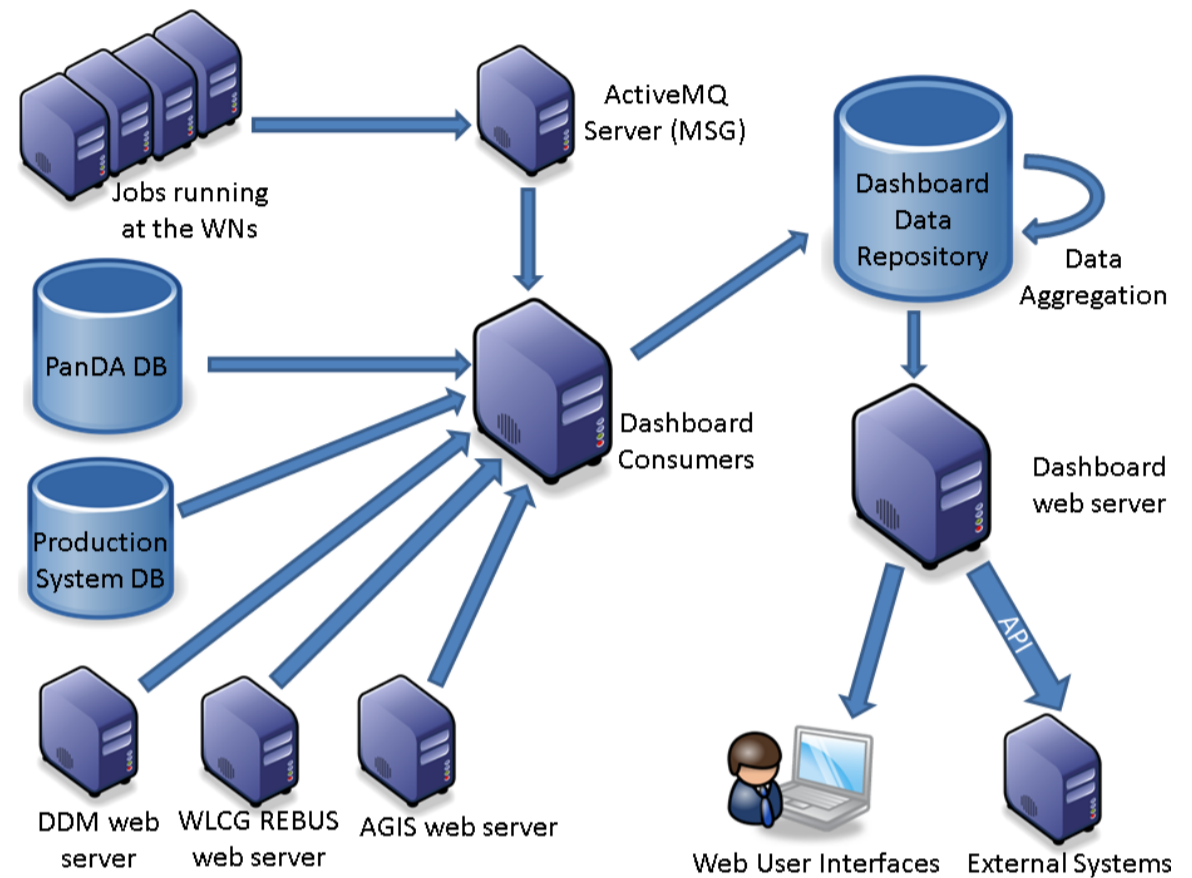
### Job Accounting:

- PanDA DB
- Production System DB
- Ganga WMS

### Data Transfers:

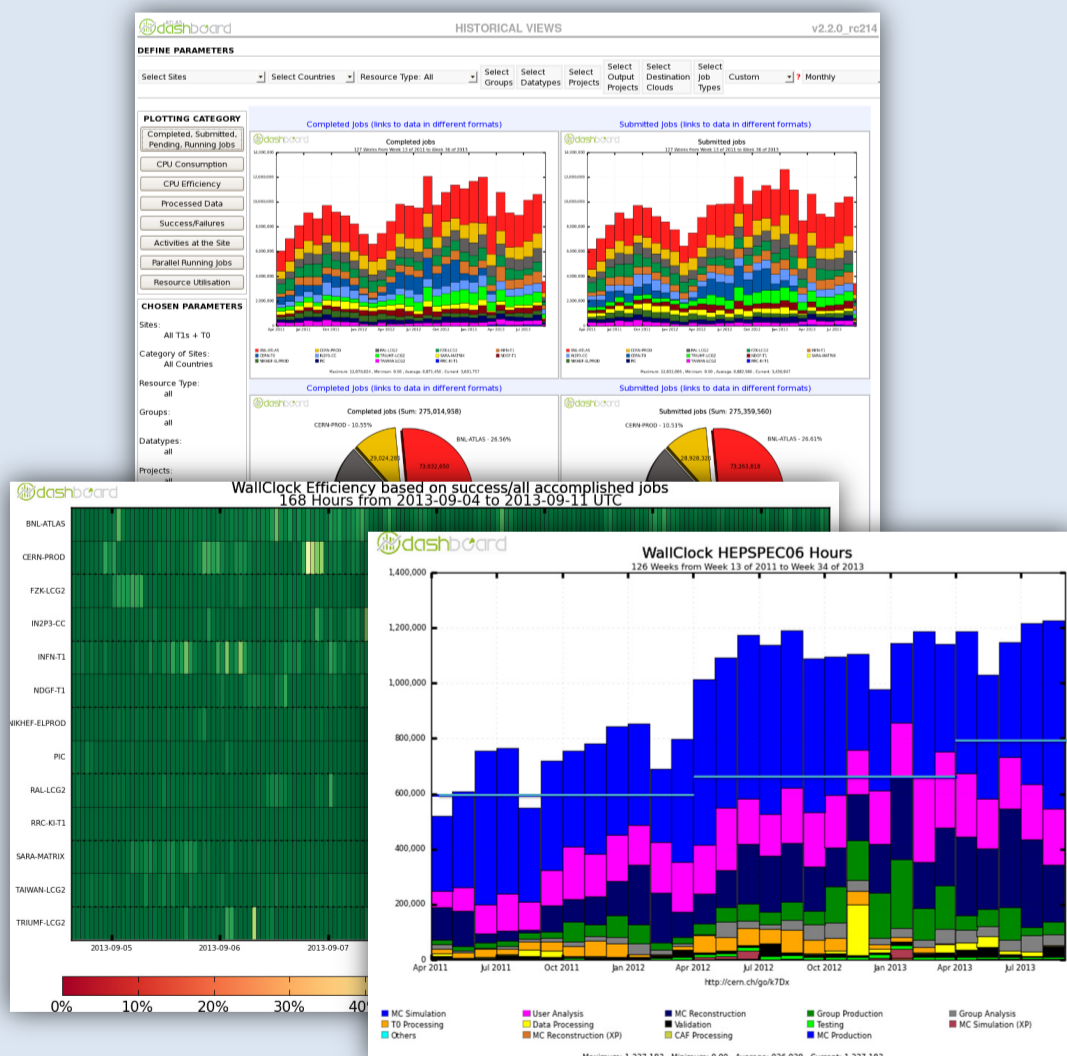
- ATLAS DDM web server

- WLCG REBUS for CPU / HEPSPROC6 and Storage pledges
- AGIS for ATLAS topology information



## Historical Views

- Helps to resolve and predict problems
- Serves to understand the nature of inefficiencies and reason of failures

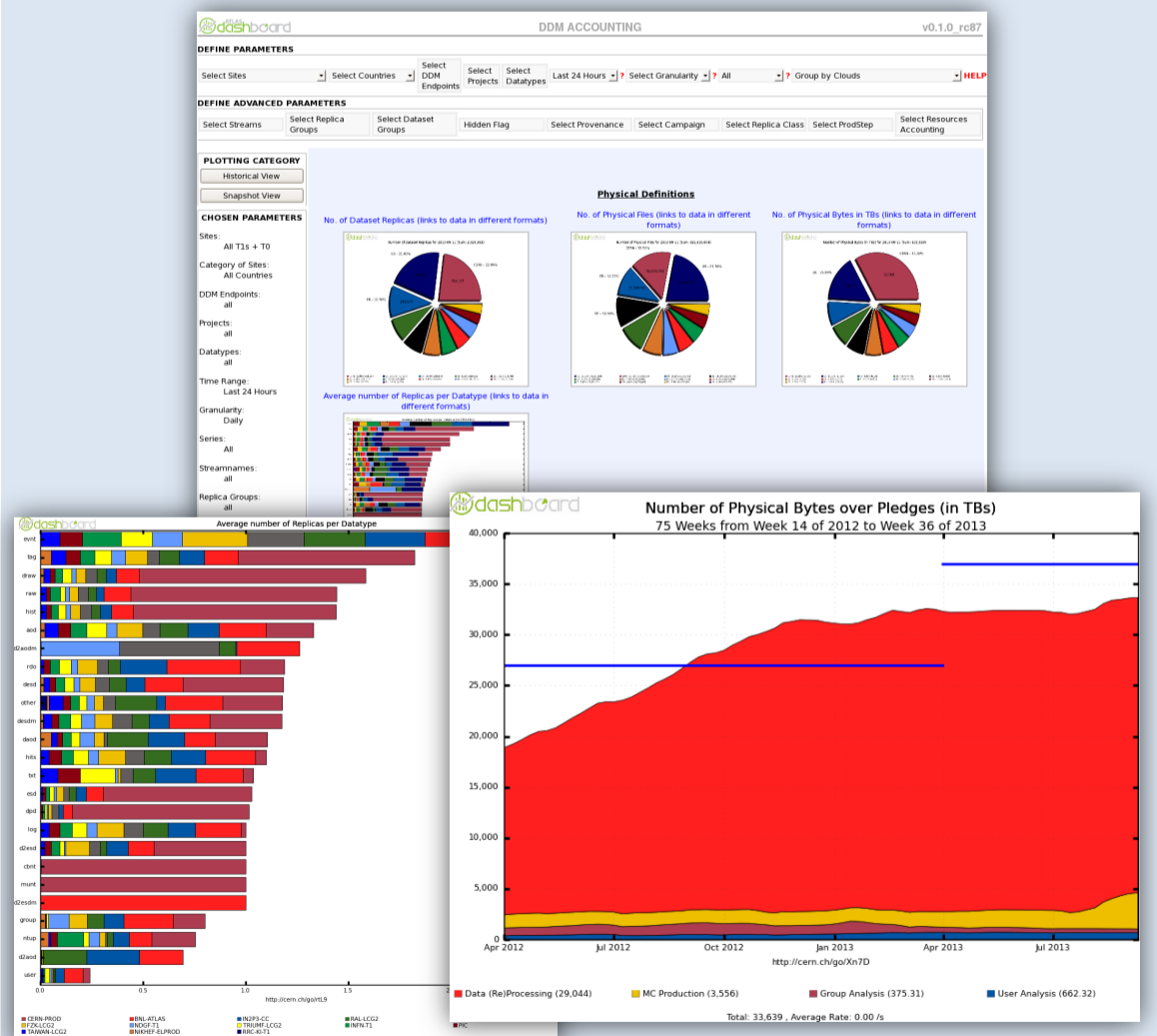


<http://dashb-atlas-job.cern.ch>



## DDM Accounting

- Shows how much storage space the site has pledged and how much remains available
- Provides detailed statistics either in historical or daily snapshot views



<http://dashb-atlas-ddm-acc.cern.ch>

