ARC Caching and Pilots

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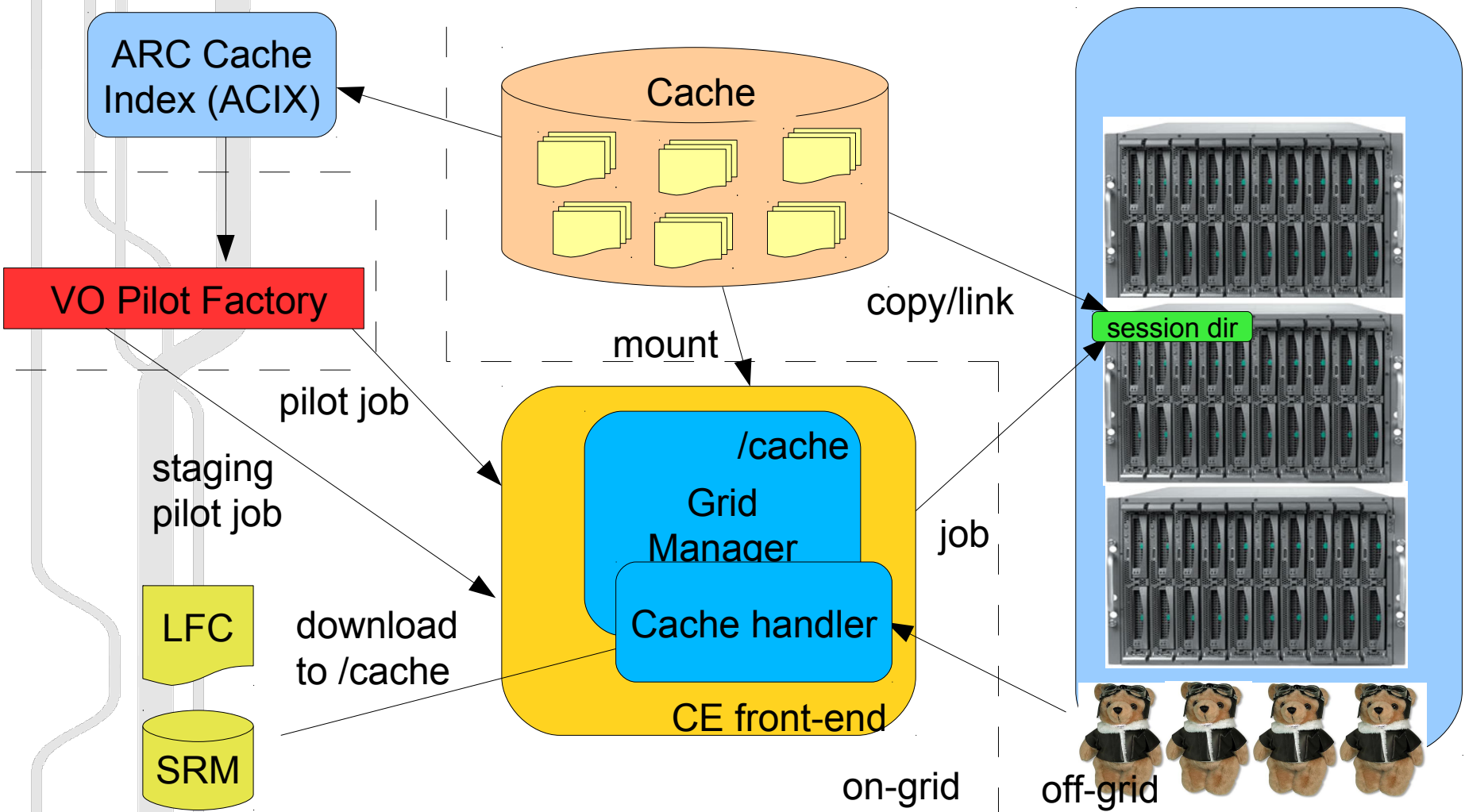**GDB, 12.1.11**

ARC and ATLAS

ARC Cache Index (ACIX)

Cache

ACT

copy/link

session dir

mount

job

/cache

Grid Manager

job

LFC

download to /cache

SRM

CE front-end

Worker nodes

on-grid | off-grid
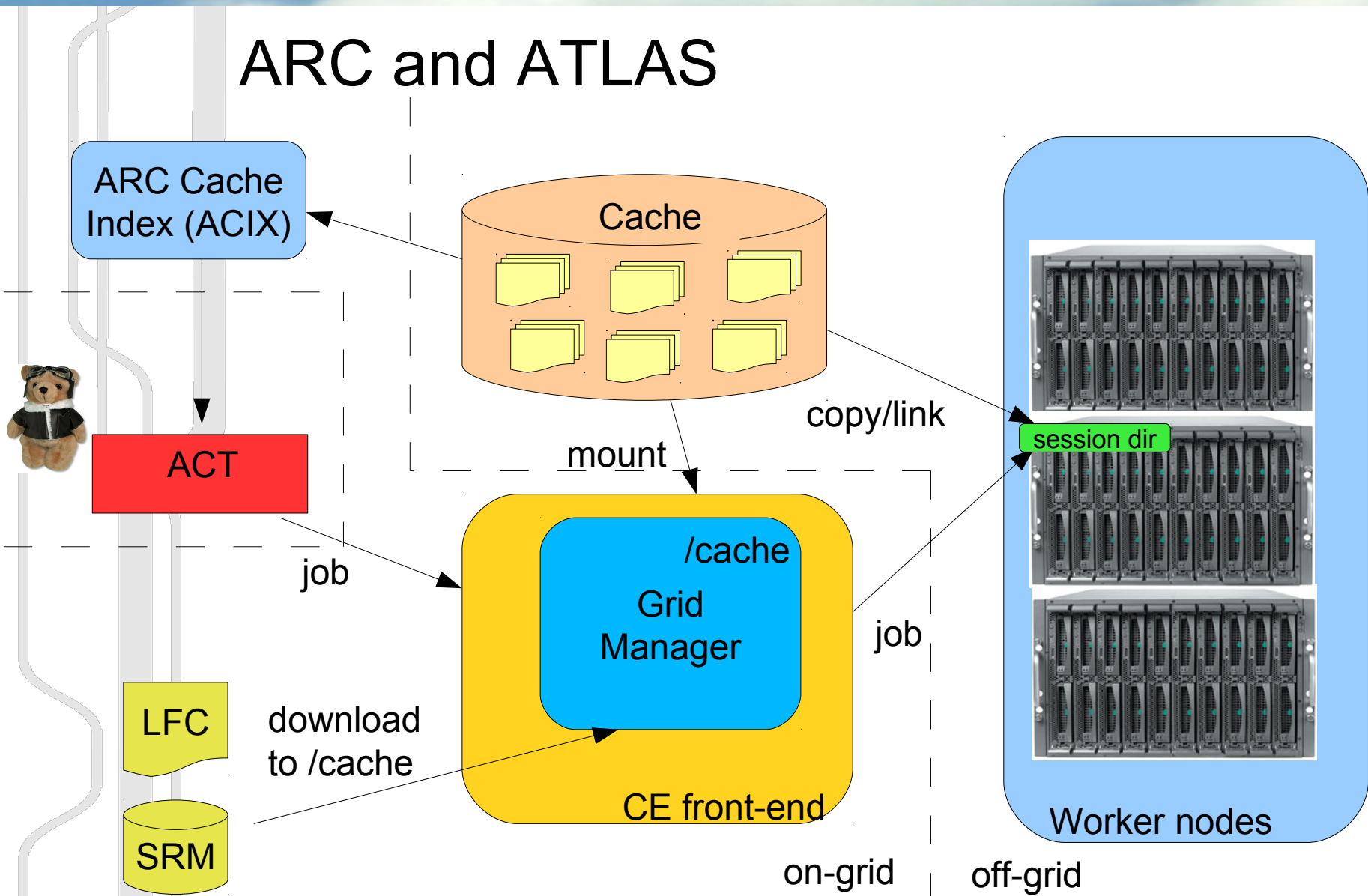
ARC and Pilots

- ARC Cache handling service
  - deployed in testing
- Pilot integration with Cache handler
  - deployed in testing
- Allow ARC to run pre-staging jobs
  - not done but high priority for ARC developers (not much work)
- Submit pre-staging jobs to ARC (to pre-fill caches)
  - Requires work on pilot factory
- Brokering based on ACIX (send jobs to cached data)
  - to be done

- The re-write of the ATLAS Control Tower (aCT) to ARC pilot factory is a larger task than expected
  - More manpower this year from ARC developers
- Plans and updates at
- https://twiki.cern.ch/twiki/bin/view/Atlas/AtlasArcDM