

# CNAF Report

JRA1 IT CZ meeting, Catania - 01/25

# Summary

- ListMatch -> C. Di G., F.G.
- Pilot Jobs status -> F. G., E. R., others
- Resource Reservation and Allocation status -> T. F., E. R.
- boost -> V. M., F.G.
- VOMS status -> V. V.
- ISM and TQ -> already talked
- Pbox -> started integration with RB (F.G., C. Di G., Pbox team)

# ListMatch

- small improvements
  - changes in dagplanner, listmatch

# Pilot job status

- Main guide line:
  - try to keep it at application level, with no changes in the existing middle-ware
- If it does not work, we will make few changes in the code.
- Base for pull mode of submission ?
  - as exercise, .... tried to transfer input sandbox files and retrieve output files

# Resource Reservation and Allocation 1/4

- New updated architecture document
  - is aligned with the architecture design described at the all hands meeting in Padova
  - specifies the attributes needed to request one of the following services:
    - Bulk Transfer (network)
    - Virtual Leased line (network)
    - Space management (storage)
  - posted to JRA4 for feedback
  - comments from Erwin Laure (see next slide)
  - <http://edms.cern.ch/document/508055/2>

# Resource Reservation and Allocation 2/4: Erwin Laure's comments

- Agreement Service issue: WMS component vs standalone service?
  - Discussion points:
    - Agreement service complements the WMS (ok)
      - Agreement service: can be invoked directly if client knows in advance the resource instances where reservation should happen (e.g. the data scheduler)
      - WMS: needed for resource brokerage when resource discovery is needed (general scenario)
    - Architecture document:
      - should equally emphasize both of the usage cases above
      - architecture should not contain implementation details (-> move WMS implementation extensions to dedicated section)
        - clarify input/output information
        - clarify difference between WMS and Agreement Service
        - add section about use cases
    - New use case: reservation usage by a third party. Erwin will clarify this with an example
  - Conclusions:
    - No change in architecture
    - Architecture document needs to clarify some issues

# Resource Reservation and Allocation 3/4

- Ongoing work:
  - validation of agreement service wsdl (started at the end of December with the help of Datamat and Zangrando)
  - storage agreement service prototype
  - study of monitoring issues related to:
    - agreement status: beforeObserved/observed/afterObserved (LB)
    - service status: notReady/ready/processing/completed (LB)
    - guarantee status: fulfilled/violated/notDetermined (initiator)
    - resource usage (initiator)
  - study of reservation state diagram and comparison with job (LB)

# Resource Reservation and Allocation 4/4

- Development team:
  - Elisabetta Ronchieri: extension of wms
  - Tiziana Ferrari: Agreement Service (c++)
- End of April:
  - WMS Extension
  - storage agreement service prototype



# boost

- Tested v. 1.31.0
  - a new boost.m4 was necessary
  - some code changes
    - filesystem library (widespread)
    - function library (only a file changed)
    - random library (only a file changed)
- We are going to test v.1.32.0

# VOMS status

- Improvements
  - Port to latest mysql++ library
  - New logging system
  - Client rewritten
- Bug fixes
  - VOMS\_Retrieve crash
  - Minors
- Future developments
  - Allow for database replica
  - Oracle support