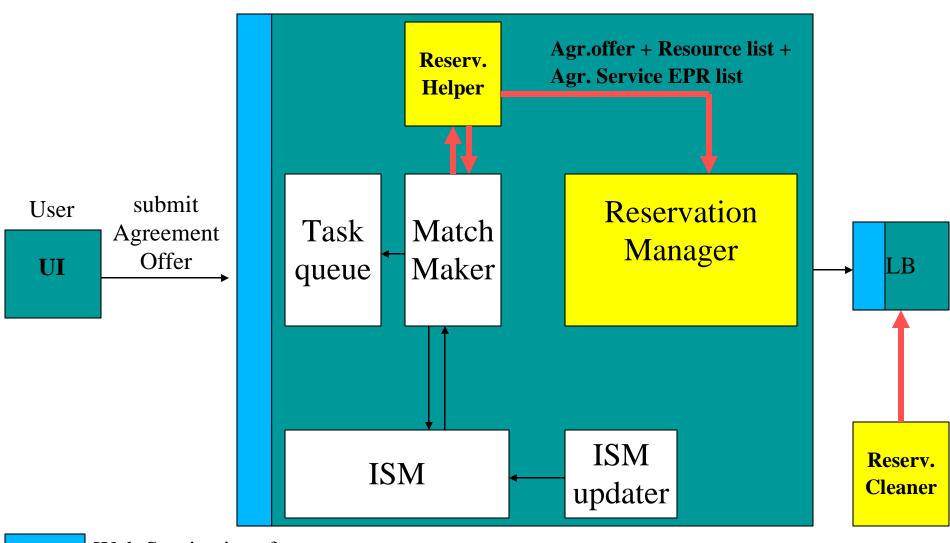
Integration of Advance Reservation in WMS

by Tiziana Ferrari, Elisabetta Ronchieri CNAF INFN JRA1 IT-CZ meeting

(Co-)Allocation and the WMS (1/2)

- Reservation Manager: a proposed component of the WMS; it should handle:
 - Simple agreements (to start with)
 - Compound agreements (next in development roadmap)
- Why integrated in the WMS?
 - Agreement offer submission: similar to job submission
 - Agreement status: information from Logging and Bookeeping
 - Agreement Service discovery: a list of Agreement Services is tried (more powerful than submission to a single Agreement Service)
 - based on matchmaking library
 - takes advantage of the ISM
 - Agreement offers can be re-submitted periodically in case of failure

(Co-)Allocation and the WMS (2/2)



Web Service interface

Report: Advance Reservation and Allocation

- JRA1 JRA4 meeting, 2nd EGEE Conference in Den Haag:
 - In-depth discussion of the GRAAP Agreement architecture (Agreement Service and Reservation and Allocation Service Provider)
 - Agreement to follow the two-layer GRAAP architecture
 - Network Element definition (ongoing): two opposite possibilities
 - Path-oriented (following the DataTAG approach) preferred
 - Service Provider-oriented (one NE per Service Provider)
 - No true support of bandwidth guarantees during the EGEE project due to a roadmap between JRA4 and GN2

∠ no resource allocation, only admission control

- Actions:
 - Tiziana: to provide the (Network) Agreement Service WSDL (no WSRF)
 - JRA4: to provide the "Bulk transfer" and "Virtual Leased Line" agreement templates
 - JRA4: NE definition (with joint phone call as soon as possible)

Developing phase

jdl attributes have been updated

```
ServiceCategory NetworkElement/StorageElement/...
Functionality VirtualLeasedLine/SpaceManagement/..
AverageBandwidth [Gbit/s]
SourceDomain
                                           NetworkElement
Source
DestinationDomain
Destination
SpaceSize
                   [Gbyte]
                                    StorageElement
StorageTransferProtocol
```

submission is under development