AMGA Activity and Future Plan for Belle II

Jae-Hyuck Kwak, KISTI

jhkwak@kisti.re.kr
Contents

• AMGA
• AMGA deployment in KEK CRC
• AMGA Manager
• AMGA Web Admin
• Conclusion
AMGA

- Standalone Grid metadata catalog
  - One of EMI products

- Advanced functionalities for distributed, large-scale metadata
  - Data replication, Data federation, ...

- AMGA 2.3 released as part of the EMI-2 (Matterhorn) on 21 May, 2012
  - SL6 x86_64 support
  - Nagios support
  - GLUE-2 based version info provider support
AMGA deployment in KEK CRC

- AMGA server installed in a single node among the newly installed computing system in KEK CRC
  - Working well, basic tests including data replication done
- Hideki Miyake is taking care of KEK AMGA server
  - KISTI AMGA group has been providing a technical support needed
- Firewall policy issue in KEK CRC
  - AMGA server needs access from outside for metadata operation
  - Takanori Hara is working on this with KEK CRC people
- More extensive tests are planned for better performance tuning required by Belle II computing model
  - KISTI AMGA server will be one of slave nodes based on Belle II metadata infrastructure
  - Might be needed to expand to multiple nodes, depending on metadata size and performance requirements
AMGA Manager

• GUI client for easy-to-use AMGA management
  – Eclipse RCP (Rich Client Platform) based
  – Limited set of AMGA commands
• EMI PTB (Project Technical Board) approved AMGA Manager as a new EMI Product on 19 June, 2012
• AMGA Manager for Belle II is scheduled to release on October, 2012
AMGA Web Admin

• Web interface for AMGA management
  – will help users to more easily have access the KEK AMGA metadata from their own web browser
    • Users don’t have to download/install the AMGA manager on their own machine
  – Eclipse RAP (Rich Ajax Platform) based
    • Re-uses Eclipse RCP based code from AMGA Manager
• Still in design phase, detailed plan will be available soon
• AMGA Web Admin is planned to be deployed in KEK along with the KEK AMGA server by the end of this year(?)
Conclusion

• **AMGA is standalone Grid metadata catalog**
  – Easy to use together with the other EMI products
  – Possible to focus on metadata itself functionalities
• **KISTI is leading and working on AMGA activities**
  – AMGA server/client maintenance, AMGA GUI client development,…
• **KISTI AMGA group will continue to support the evolution and maintenance of AMGA even after the EMI project ends**