AMGA Activity and Future Plan for Belle II

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AMGA

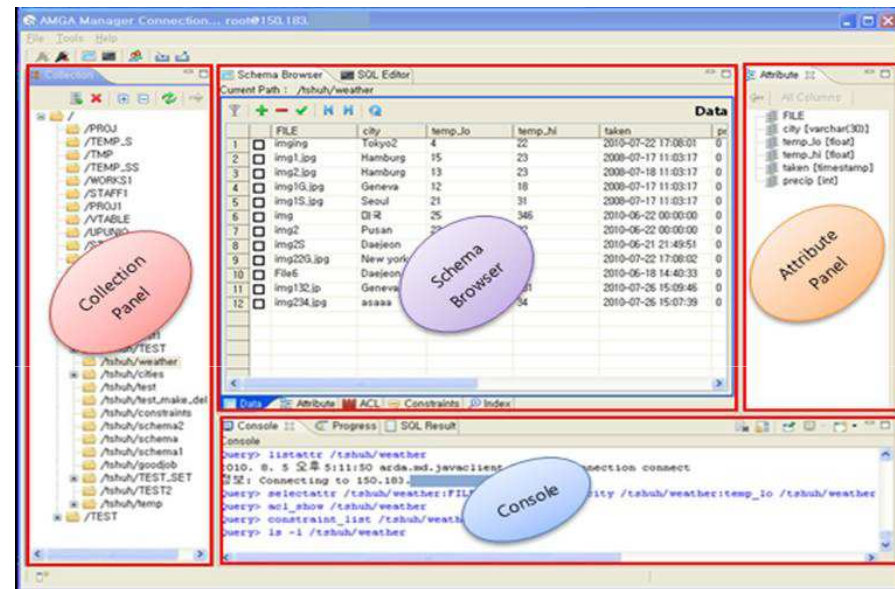- Standalone Grid metadata catalog
  - One of EMI products
  - http://www.eu-emi.eu/emi-2-matterhorn-products
- Advanced functionalities for distributed, large-scale metadata
  - Data replication, Data federation,...
- AMGA 2.3 released as part of the EMI-2 (Matterhorn) on 21 May, 2012
  - SL6 x86_64 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