



# **ARC in JRA1 Data Area** (task forces, data libs, classic SE)

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# ARC in JRA1 Data Area

- JRA1 Data Area **Task Forces**
- ARC Data Libraries **Product Team**
- Classic SE



# Task forces

- SRM specification consolidation
- SRM, replacing httpg with https SSL/X509
- Posix File Access file://..., NFS 4.1
- Data access via http(s)/WebDav
- Catalogue synchronization
- gLite file catalogue access for UNICORE
- **GLUE 2.0 migration**
- **Data client library consolidation**
- Integration of ARGUS
- **Storage Accounting**
- Monitoring
- Manageability
- Message Passing in EMI data

# SRM specification consolidation

- Collection of community feedback [PM 9]
- Initial document [PM 12]
- SRM integration into UNICORE [PM 24]
- Review and final document [PM 24]
- Overall consolidation of data area by adopting a consistent interpretation of SRM [M24] - **SRM DMC in libarcdata2**
- **ARC members: none**

# Replacing httpg with SSL/X509 for SRM

- Creating one prototype SE and one client [PM 12]
- All EMI Storage Elements plus **EMI clients** [PM 24]
- Migration scenario design for infrastructures [PM 36]
- There is a related security area task force
- **ARC members: none?**

# POSIX data access (native or NFS 4.1)

- Production POSIX access for StoRM and dCache [PM 12]
- All EMI storage elements provide POSIX access [PM 24]
- **ARC members: none**



# Web access, http(s) and WebDav

- Storage Elements provide access via HTTPS for downloading data. [PM 12]
- Storage Elements provide partial or full access to data via WebDav [PM 24]
- **ARC members: none**

# Catalogue synchronization

- Agreed design [PM 8]
- Prototype as 'proof of concept' [PM 12]
- LFC plus one storage element provide full synchronization functionality [PM 18]
- All EMI SE's provide synchronization functionality [PM 24]
- **ARC members: none**



# File catalogue access for UNICORE

- Implementation of file catalogue integration [PM 12]
- Evaluation of file catalogue integration [PM 15]
- **ARC members: none**

# GLUE 2.0 migration

- Common agreement on the interpretation of the GLUE 2.0 schema. [PM 6]
- Publishing GLUE 1.3 data as with GLUE 2.0 schema [PM 12] + **one storage client capable of consuming it**
- EMI data components fully GLUE 2.0 compatible [PM 24] + **all storage clients**
- **ARC members: Zsombor**

# Data client library consolidation

- Development of a consolidation between the ARC and gLite data clients [PM 24]
  - A design will be presented on how to merge the ARC and gLite data access libraries and a plan on how to migrate.
  - **Providing a common set of data access libraries at least between gLite and ARC.**
- Migration of the new data client component [PM 36]
  - Full migration to the merged data access libraries will be finalized
- **ARC members: Jon (leader), Zsombor**

# Integration of ARGUS

- ARGUS Blacklist integration of at least one EMI Storage Element [PM 12]
- ARGUS Blacklist integration of all EMI Storage Elements [PM 24]
- Integration of further ARGUS functionality into EMI SE's, if required [PM 36]
- **ARC members: none**

# Storage Accounting

- Definition of a storage accounting record [PM 8]
- Add support of storage accounting in FTS and EMI storage elements [PM 36]
- **ARC members: Jon (leader)**

# Monitoring

- Collaborating with the EMI infrastructure group to define an interface for EMI data monitoring [PM 12]
- Implementing server side sensors accordingly [PM 24]
- **ARC members: none**

# Manageability

- CLI and Web Interfaces, where required [PM 24]
- **ARC members: none**



# Message passing in EMI-data

- Collecting possible use cases for message passing in EMI data [PM 7]
- **ARC members: none**

# ARC Data Libraries PT

- ng\* data clients: being phased out
- arc\* data clients: needs stress-tests and pro-active maintainance
- libarcdata2, DMCs
  - compatibility with consolidated SRM
  - compatibiltiy with HTTPS based SRM
  - should be promoted as general EMI data library approach (portability, extensibility)
    - LFC catalog changes? NFS4.1? cloud? xroot?
- **members: Jon, Zsombor, Mattias**

# Classic SE

The only component is **GridFTP**. No proactive maintenance, **only regular support activity** until the component is **harmonised out**. If Globus will come with a new version with the GridFTP library, we may want to adjust it, if it'll come before Classic SE is phased out. But in all likelihood **Classic SE will be phased out** sooner, and no proactive maintenance or development will be needed.