BUILDING A TRUSTED DISTRIBUTED ARCHIVAL PRESERVATION SERVICE WITH iRODS

Distributed Custodial Archival Preservation Environments (DCAPE)

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DCAPE Project

• Distributed custodial preservation approach as a production service
• Highly collaborative partnership
• Phase 1 -- 26 rules, ISO MOIMS-RAC
• iRODS
  – rules validate trustworthiness
  – enables distributed auditable admin
DCAPE Project

DCAPE Partner Requirements

ISO MOIMS-RAC

26 DCAPE Capabilities
- Replication
- Virtual Loading Dock
- Virus Check
- SIP Format
- DIP Format
- Audit Trail and Logging
- Periodic Integrity Checks
- Data Migration
- Access Control
- Search Interface
- etc.

Preservation-as-a-Service
- policy
- rules
- microservices
- iRODS core
DCAPE Project

• Status
  – 26 capabilities identified
  – ISO MOIMS-RAC to DCAPE mapping
  – Capabilities mostly implemented
  – Capabilities installed in development area

• Future Work
  – Come see the poster!