iRODS User Group Meeting
June, 2015
Chapel Hill, NC
Jason Coposky, Chief Technologist
Focus on External Services

Messaging Framework

Rule Engine Plugins

Potential Reference Implementations

Architecture and Requested Enhancements
Messaging Framework

Consolidate work done by the Community

Standardize

- Serialization technology
- Message formats
- Topics and the associated services

Provide packaged reference implementations
Rule Engine Plugins

Leverage new languages for use as the Rule Language - Python, C++

Combined with Dynamic Policy Enforcement Points - Fine grained and fast dispatch to the messaging framework

Create custom Rule Engine plugins for specific functionality - auditing, etc.
Reference Implementations

Leverage experience with existing Deployments - iPlant, DFC, Hydroshare

Indexing - Elastic Search, Solr, etc.

Notifications - asynchronous updates

External Metadata Stores - Jena, etc

Auditing - Ingest service for audit messages
Architecture and Requested Enhancements

Road map for 4.2 is open for requests -

Currently 58 Enhancements under the 4.2 milestone

Architectural Changes

Move build system to CMake -

  better cross-platform build capabilities

No longer statically link -

  icommands and server should depend on the dynamic libraries

Input from Membership and the Community

Requests via GitHub and iRODS Chat mailing list
Questions?