



iRODS

4.2

iRODS User Group Meeting

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Chapel Hill, NC

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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?
