

Component	Feature Requested in 2012	Importance	Status
	Publish prioritization mechanism - bug fix, impact, funding, urgency, difficulty, maturity		
	Forum board for iRODS queries		
	VFS client		
	De-duplication		
	Copy on write flag		
	Md5 checksum provision on ireg / identify source of checksum		
	Digital signature		
	Create replicas in a federated zone		
	Redirection of users to federated zone for locality		
	Java micro-service support		
	iDrop zone-to-zone third party transfer		
	icp, irsync metadata copy across zones - user defined metadata option		
	zone-to-zone transfer		
	policy enforcement hooks - formal representation of hooks		
	parallel transfer of bundle		
	pdf of policy-icommand usage in google docs		
	Jargon - policy mapping		
	windows based system (parallel transfer)		
	Merge results from two databases – table language		
	Synchronize metadata with/from another database		
Micro-services	Support Python-based Micro-services by including Python interpreter in the Micro-service.	U. Liverpool	
Server	A more general mechanism to access external databases. Admin will define location and specify SQL, client will be able to provide arguments. Independent of ICAT.	Table-driven resource	
Installation	When compile, verify that only changed files are recompiled.	ok	
iRODS Metadata Catalog (iCAT)	Save RDA request results for use in a session, want to pass result list to another Micro-service.	obsolete	
Installation	Create a VM build for use of iRODS in tutorials.	NCSU	
Clients	Want support for load leveling	LSU	
Clients	For file movement, automate file caching, staging to final location or replication	KEK	
Rule base Management	Provide mechanism to add rule base extensions to a remote rule base.	In Progress	
Rule base Management	Provide mechanism to synchronize rule bases across servers within a data grid.	In Progress	Done
Rule base Management	Provide versioning support for rules.	In Progress	Done
Windows	Create a Windows only environment, using Postgres and GSI (both now run on Windows)	In Progress	(partial)
Windows	Create a Windows only environment, using SqlServer	In Progress	(partial)
Drivers and Access	Mount a flash drive.	imount	
Clients	iFile command - file identification	GaTech	
Network Transfer	Fix UDP on Solaris.	done?	Done
Clients	FUSE restriction on read-ahead, check that it is fixed	done	Done
Development	Consider use of Google Code repository and other shareware sites.	Done	Done
Development	Create a collaboration environment for promoting development of iRODS. (done)	Done	Done
File Manipulation	Add core.irb rule to check policy on iget. May want to return alternate version (redacted copy) of file. Preprocessfor get	done	Done
File Manipulation	Hook for preProcForPut for medical applications.	done	Done
Information	Add a Doxygen indexed version of iRODS source on the wiki.	Done	Done
Information	Add links to WebDav environment on iRODS wiki, provides drag and drop access to files across windows.	Done	Done
Information	Post on Wiki a list of the planned developments for Jargon.	Done	Done
Clients	Develop Fortran API.	Done	Done

Comments

iRODS Metadata Catalog (iCAT)	Automate Dicom metadata extraction from binary files.	done	Done
iRODS Metadata Catalog (iCAT)	Implement FITS header parsing and metadata loading.	done	Done
Network Transfer	Configure port numbers for data transfer.	Done	Done
Network Transfer	Support sequential transfers as one-hop, similar to parallel.	Done	Done
Server	Add AVU metadata to resource groups.	done	Done
Information	Publish the complete iRODS network protocol. (in progress)	Document	
File Manipulation	Support Soft Links in iRODS (supported in 2.3)	Collections	Done
Clients	iRODS Eclipse File system accessed via iRODS URI	CDR	
Server	Allow GSI authentication to non-iCAT-Enabled-Server without irodsUserName being set.	ARCS	
Clients	Test on Centos, FreeBSD, Ubuntu, Solaris, 32-bit, 64-bit	all	
File Manipulation	When fail over to an alternate server, verify that the Rule engine will not have a conflict for a queued Micro-service.	?	
Installation	Create a VDT (Virtual Data Toolkit) version of iRODS.	?	
Clients	Create a Condor interface / port for iRODS	?	
Message Server	AMQP compliance for message format	100	Raja
Clients	LDAP support in iRODS for identity management - PAM/NSS Implies identification of users and groups	12	Schroeder
Clients	Support restart of very large file transfer in iput, iget from last successful buffer	12	Done 3.0
Clients	Add Kerberos/AD support in Jargon	11	Conway
Security / Authentication	Support ticket-based access to iRODS for limited time and # accesses	11	Done 3.1
	New HPSS driver	10	?
Network Transfer	Extensions to Jargon for checksum verification on file transfer	10	Done
Rule Engine	Early access to new version of rule engine	10	Done 3.0
Clients	Communication between Object Storage and iRODS for policy information exchange	9	?
Clients	Generic control policies from iRODS to storage system	9	?
Clients	Mapping from iRODS audit trails to Premis Events	9	?
Network Transfer	Support transfer of multiple files using multiple I/O streams.	9	?
Clients	Resource monitoring system attributes for physical media	8	?
Clients	Add file soft links	8	Done
Clients	Encrypt all iRODS communication	8	?
Clients	ACLs on micro-services	7	?
Clients	Export iRODS through CIFS	7	?
Table -driven resources	JSON format instead of common-separated-value	7	Conway
Clients	Metadata support associated with Fuse	6	proc file
Clients	ACLs on metadata	6	Strict?
Clients	Need information published from iRODS back to Fedora for events - through audit trails	6	Dan Davis
Clients	Add regular expressions to i-commands (wild cards).	6	script
Clients	iExplore streaming interface to files, start display before entire file arrives	5	No
Clients	Set persistent executable permission on Fuse mounted files	5	Done
File Manipulation	Decompress at client.	5	Partial 3.1
File Manipulation	Manage locks for collaborative editing (either on storage system, in metadata, or portal).	5	3.1
File Manipulation	Support compressed files end-to-end	5	Conway

Treq

Webdav

igetwild

Security / Authentication	Support token-based identification such as SecureID (part of PAM)	5	Schroeder	
Table -driven resources	Export KML view of the iCAT catalog	5	?	
Clients	Request for JDK 1.7 compliance - future	4	Conway	
File Manipulation	Checksum for compressed files	4	?	
Clients	Develop Perl API.	4	Irene	
Micro-services	Create script for automating module creation. Provide default template for creating new Micro-service.	4	?	
Table -driven resources	KML data format for database results on spatial databases	4	?	
Table -driven resources	table-driven resource access to SQLServer	4	RENCI	
Clients	PyRods support in Gforge (Univ Liverpool)	3	Conway	
Clients	Synchronize very large files using partial data transfer restarts	3	Done	
Clients	Use SQL Server as an iCat catalog	3	RENCI	
Micro-services	Support Perl-based Micro-services by including Perl interpreter in the Micro-service.	3	?	Image analysis
File Manipulation	System level lock manager for core.re, shared memory, collection (shared cache for rule engine)	2	partial	
Security / Authentication	Support a session shell in iRODS, issh	2	?	test impact
Table -driven resources	URI link to an external database through RESTful interface	2	soft link	
Administration	Add ability for a project PI to create user accounts for group members. Groupadmin	1	3.1	on list, list group name
Administration	Restrict ability of ASSIGN to change user name, user role, user permissions.	1	check	impact on REI structure
Drivers and Access	Support mounting of a Webdav directory into iRODS. (done through DAVIS)	1	Soft link?	
	Versioning of Objects (using existing system metadata placeholder)	?	?	input option
iRODS Metadata Catalog (iCAT)	Create RDA interface to Sybase.	?		
iRODS Metadata Catalog (iCAT)	Port iCAT to Sybase.	?		
iRODS Metadata Catalog (iCAT)	Support logical registration into iRODS. Ability to associate metadata with a name without requiring a file.	mssso		
Message Server	Integration of messages with workflow service	xmsg		
Table -driven resources	Execute control on remote database procedures	0		
	Set quotas for group members, set access controls, create accounts			
Clients	SRM interface to iRODS			
	Encrypt iRODS files			
Clients	Python load library			
	Production version of iDrop by December (mime type support for external access, sharing, bi-directional synchronization, network throughput bottling, periodic rules run locally)			
	NFSv6 mount for iRODS			
	SAMBA interface to iRODS			
	GPFS/HPSS driver for staging of data			
Framework	Dump / restore metadata catalog			
Framework	Log changes to metadata catalog to replay and rebuild			
Framework	Micro-service to automate management of database			
Framework	Log analyzer for tracking usage, errors, and summaries			
Information	For SRB to iRODS metadata migration, handle migration of SRB zones. How can multiple SRB zones be re-federated within iRODS easily?		Soft link	
Information	Port SRB APIs on top of iRODS, will avoid having to rewrite many application scripts.			

Information	Post link to VBrowser, links to Taverna and EGEE grid.		
iRODS Metadata Catalog (iCAT)	Create signing registration to be able to track origin of files. Given signature, find original copy.		
iRODS Metadata	Update modify time of parent collection when a file is deleted		
Workflow integration	Standard release for the iRODS workflow server		
Workflow	Workflow driver for Pegasus - GSI certificate		
Workflow	Workflow driver for Condor		
Workflow	Workflow driver for Glite		
Workflow	Workflow driver for Taverna		
Workflow	Workflow driver for Triana		
Workflow	Workflow driver for Kepler		
Security	VOMS based security		
Security / Authentication	Support client-level encryption and decryption of files. Store encryption keys. Consider a version with encryption done only during transfer. Data is stored unencrypted or encrypted.		
	Soft links to OAI-ORE (manipulate a compound document)		
	Soft link to OAI-PMH		
	Soft link to Dcache		
	Soft link to Castor		
	Soft link to Atlas		
	Soft link to Gfarm		
	Soft link to OpenStack		
	Soft link to S3		
	Soft link to EC2		
	Soft link to GridFTP		
	Soft link to Kopal		
	Soft link to Unicore		
Table -driven resources	Cache for metadata		