

Table of Contents

ARC Clients v.1.0.0.....	1
Release Notes.....	1
List of RFCs.....	2
Documentation.....	2
Artefacts.....	2

ARC Clients v.1.0.0

Release Notes

What's new:

- ARC Clients in EMI-1 "Kebnekaise" release is a major step forward with respect to previous releases, as it completes migration to the new code base. With this release the ng* clients are replaced by the arc* clients.
- Introduction of a modular architecture, which comes to its power in the libarcclient and libarcdata2 libraries.
- Compute client comes with plugins providing functionality for job submission, resubmission, and job management against the pre-WS ARC, A-REX, CREAM and any BES-based Execution Service (ES).
- Compute client supports job migration between A-REX instances.
- Compute client supports resource discovery based on EGIIS, ISIS and BDII index services.
- Compute client offers matchmaking and ranking by shortest queue, clock speed, benchmark or data location.
- Compute client offers job description translation between the XRSL, JSDL and JDL languages.
- Modular libarcclient allows easy extension for additional services, ranking algorithms, or job description languages.
- New plugins-based data library, libarcdata2, replaces previous data library.
- Data access is now managed through DMCs, protocol-specific plugins.
- New data clients (arcls, arccp, arcrm, arcsrmping) replace previous data clients (ngls, ngcp, ngrm, ngtransfer, ngstage, ngacl).
- Improved default output for arcls, now closer to UNIX ls. Options are provided to specify non-default output.
- Improved error messages for arcls and arccp, improved calculation of file checksums.
- Fixed a bug where the check for readability (arcls -c) failed incorrectly in some cases.
- Fixed a bug where metadata from gridftp objects were incorrectly reported.
- arcproxy bugfixes: arcproxy - dteam VO error (#2026), arcproxy does not search /etc/vomses recursively (#2118), Segmentation fault with arcproxy with invalid vomses file (#2155)

Deployment notes:

- With this release the new clients (arc*) utilising the strength of libarcclient and libarcdata2 replace the old clients (ng*). The behaviour and interface of the new clients slightly differs from the old ones, so for compatibility reasons the ng* still distributed as part of the compat package.
- The old arclib is now replaced by the new libraries and tagged as obsolete (though still available).
- Previous clients (ng*) are now available from nordugrid-arc-compat package.
- The new clients (arc*) are available from the nordugrid-arc-client package.
- The libarcclient and libarcdata2 libraries are available from the nordugrid-arc package.
- The DMCs and different plugins are available from nordugrid-arc-plugins-needed and nordugrid-arc-plugins-globus (the latter requires globus).

Known Issues

- The new arc* commands are not 100% compatible with the old ng* commands. A detailed analysis of the differences are provided as part of client component documentation.
- Recursive copy using ngcp -r deletes existing files (see nordugrid bug #2132). Use caution when using ngcp -r or use arccp -r instead.
- There are additional non-critical smaller issues registered in NorduGrid bugzilla.

List of RFCs

- Replace ng* data tools with arc* data tools [↗](#)
- Replace ng* compute tools with arc* compute tools [↗](#)
- arcproxy - dteam VO error [↗](#)
- arcproxy does not search /etc/vomses recursively [↗](#)
- Segmentation fault with arcproxy with invalid vomses file [↗](#)

Documentation

- Functional Description [↗](#) (Section "Functionality Overview")
- User Guide : arc* tools [↗](#), ng* tools [↗](#)
- Client Installation and Configuration : arc* tools [↗](#), ng* tools [↗](#)
- Client Configuration Template : Section "ARC Client Configuration" [↗](#) , and section "Configuration" [↗](#)
- User Troubleshooting Guide [↗](#)
- Other Documentation : <http://www.nordugrid.org/documents/xrsl.pdf> [↗](#), http://wiki.nordugrid.org/index.php/ARC_Client_Tools_Transition [↗](#)
- **Man Pages/Online Help** available with binary packages

Artefacts

Binaries
nordugrid-arc-client-1.0.0
nordugrid-arc-compat-1.0.0
nordugrid-arc-compat-debuginfo
Sources
nordugrid-arc-1.0.0-0.b5.src.rpm
nordugrid-arc-compat-1.0.0-0.b4.src.rpm
nordugrid-arc-meta-1.0.0-0.b6.el5.src.rpm
Metapackages
nordugrid-arc-client-tools

-- EmidioG - 03-May-2011

This topic: EMI > ARCclientsv1_0_0Details

Topic revision: r1 - 2011-05-03 - EmidloGiorgioExCern



Copyright &© 2008-2020 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback