Release notes collected from

https://savannah.cern.ch/task/?group=emi-releases

Document updated: 15/03/2011

Components:

#19550 emi-ui v.0.0.0

Date: 15/03/2011
Component Release Notes:
NA

#19488 UNICORE Registry v.6.4.0

Date: 15/03/2011
Component Release Notes:
This is the first release as RPM package.

#19398 glite-yaim-core v.5.0.0

Date: 15/03/2011
Component Release Notes:
NA

#19389 emi-metapackages v.1.0.0

Date: 15/03/2011
Component Release Notes:
NA

#19384 top BDII v.1.0.0

Date: 15/03/2011
Component Release Notes:
NA

#19357 RAL-SAGA-SD v.1.0.0

Date: 15/03/2011

Component Release Notes:
Four bugs have been fixed relative to the gLite 3.2 version.

#19279 UNICORE WS v.6.4.0

Date: 15/03/2011
Component Release Notes:
NA

#19271 emi-sherpa

Date: 15/03/2011
Component Release Notes:

- What's new:

(Brief description of the main changes, both new features and bug fixes)
- better support for higher mountains climbing
- load balancing
- fix for water leakage

- Deployment notes:

(More details on installation and configuration stating very clearly if the service must be reconfigured and/or restarted.)
- this version of the tent requires drained service restart
- this version of the utils comes with extra dependencies
- no changes in the utils config
- tent config has three new values

- Known Issues:

(Known issues present in the release, possibly with a workaround.)
- tent is still too heavy to carry up to a hill - use a powerfull macchine (see bugzilla.sherpa.org/bug?666)

#19149 EMI 1 (Kebnekaise) revision update (1.0.1)

Date: 15/03/2011
Component Release Notes:
NA

#19148 EMI 1 (Kebnekaise) major release (1.0.0)

Date: 15/03/2011
Component Release Notes:
NA

#18871 ARGUS-EES v.0.1.0

Date: 15/03/2011
Component Release Notes:
NA

#18734 UNICORE sec libs v.2.0.0

Date: 15/03/2011
Component Release Notes:

- What's new:

- the libraries xfire-secutilsWithDSig and xfire-secutils where merged into one called secutils-xfire
- the XFire-independent code which was previously scattered in xfire-* libraries, WSRFLite and in XNJS was moved to securityLibrary, so it can be easily reused and is not duplicated.
- securityLibrary has support for creation of secured HTTP clients (independent from XFire and WS)
- the code does not use proprietary Sun JDK APIs any more.

- Deployment notes:

NONE - the libraries are not deployed on their own, only as a part of other components.

- Know issues:

NONE

#18733 UNICORE AIP v.2.0.0

Date: 15/03/2011
Component Release Notes:

- What's new:

- The module is now a part of UNICORE Services Environment
- SAML query module received an important optimization: whenever more then one attribute source is configured to query the same SAML authority (e.g. for checking membership and attributes in multiple VOs handled by this authority) only one network query is performed.
- All the attribute sources were updated to report which VOs are configured and supported, assuming that the source supports VO concept.
- Additional authorization only XACML attributes are returned together with the incarnation attributes (updated to match changes in USE-core).

- Deployment notes:

NONE - the component is not deployed on its own, only as a part of UNICORE WS.

- Know issues:

NONE

#18732 UNICORE XACML PDP v.2.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

- The XACML entity code from the UAS-core became a separate module, a part of the UNICORE Services Environment.
- The new PDP implementation was added: a local XACML 2.0 PDP. It works in a similar way as the only PDP available in UNICORE so far, but supports the new XACML version and allows for storing policies in multiple files, in the configurable policy directory. This allows for easy configuration and deployment of additional services added to the container.
- The new remote XACML 2.0 PDP was implemented. It uses XACML SAML profile to ask for authorization decisions. The Argus CE profile is implemented for encoding of attributes.

- Deployment notes:

NONE - the component is not deployed on its own, only as a part of UNICORE WS.

- Know issues:

- The current support for Argus PDP is working but is not useful for UNICORE. This is due to the fact that Argus proprietary policy language can not be used to express the default UNICORE policy (there is no resource owner concept implemented in Argus). Therefore this PDP implementation will become production-ready after the update of Argus. Also this module will need to be slightly updated to use the (not yet known) Argus attribute names, which are being defined in the new EMI XACML profile.

#18731 UVOS v.1.4.1

Date: 15/03/2011
Component Release Notes:

What's new for UVOS server:

- Added support for CRLs (I #3163915)
- Updated many dependencies, removed deprecated or proprietary code usage. (I #3163913)
- Added endorsed directory. (I #3163913)
- Updated underlying security libraries. xmlsec and commons-logging must be in endorsed directory. (I #3163913)
- Updated to Jetty 6.1.26 (I #3163913)
- Fixed SF *bug #3041189*: error occurring in group's authorization policy management.
- Fixed a bug which occurred in duplicate reporting of implied groups for users being members of multiple child groups. (B #3163916)
- Fixed a bug which prevented server to function normally when there was no web module installed. (B #3163919)
- Fixed a bug which resulted incomplete attributes list when querying for all attributes including implied. The error was that not only attributes that were defined in a group where the client had no permission to read were hidden but also all attributes implied by those hidden (while sometimes in a parent group the client had permission to read). (B #3163920)
- Meaningful error messages are provided when incorrect key alias is configured. (I #3163913)
- Changed a default logging configuration to be more similar to the other UNICORE servers: daily log file rolling is used now. (I #3163913)
- Fixed the SF *bug #3020090*. The fixed memory leak caused the server to hang after serving ca 500000 requests.

- What's new for UVOS client:

- Fixed bug with attribute value encoding. Currently all UTF-8 characters are properly passed to the server, regardless of the local system settings. (B #3163928)
- Added quit alias to exit

- What's new for UVOS webapp:

- Updated for compatibility with UVOS server 1.4.0 (won't work with older versions)
- Updated to the latest SpringWebFlow 2.0.
- It is possible to eliminate agreement form. Simply use empty agreement in form definition. (FR #3163908)
- Option to submit additional CA certificate is not rendered if email identity format was chosen. (FR #3123576)
- Full verification of submitted certificate was implemented. (FR #3123570)
- Possibility to enforce additional groups or additional attributes was added. (FR #3163907)
- It is possible to control in application form whether submission of an additional CA certificate is enabled. (FR #3123576)

- What's new for UVOS webauthn:

- Updated for compatibility with UVOS server 1.4.0 (won't work with older versions)
- Added highly experimental support for SAML Redirect binding which allow to use UVOS with this module installed as IdP for Shibboleth SP.

- Deployment notes:

- NONE - this is the first release of UVOS in RPM packages.

- Know issues:

#18730 UNICORE XUUDB v.1.3.2

Date: 15/03/2011
Component Release Notes:

What's new:

- There are no implementation or functionality changes, except of providing the software as a binary RPM package.

- Deployment notes:

NONE - this is an initial RPM release

- Know issues:

NONE

#18729 UNICORE Gateway v.6.4.0

Date: 15/03/2011
Component Release Notes:

What's new:

- At server startup verification of all keystore and truststore settings is performed to detect missing files, wrong passwords etc.
- Gateway reuses some of the securityLibrary functions.

- Deployment notes:

NONE - this is an initial RPM release.

- Know issues:

NONE

#18728 UNICORE Services Environment v.6.4.0

Date: 15/03/2011
Component Release Notes:

What's new for UNICORE/X 6.4.0

UNICORE/X and the underlying WSRFlite container have
been refactored into the "UNICORE Services
Environment" (USE). USE now supports not only the usual SOAP / WS(RF) web services, but also REST services which will
be used in future UNICORE versions.

Furthermore, several bugs have been fixed, and dependencies
to third party libraries such as Jetty or XmlBeans have
been updated to more recent versions.

Deployment notes

This is the first RPM based release in EMI.

When updating existing 6.3.x installations,
it is required to stop and cleanly restart the
UNICORE/X server. Due to the internal changes
it is necessary to purge the persistent data.

#18717 L&B v.3.0.4

Date: 15/03/2011
Component Release Notes:

What's new:

- Extended authorization features
- Controlling permissions to log user tags

- Support for changing job owners
- Additional information available through the HTTPs interface
- up-to-date wsdl
- better support for displaying collections
- server version information
- L&B per-CE statistics
- Support for publishing L&B notification messages through messaging
- Bug fixes
- Several bottlenecks addressed in the server and interlogger
- Library versioning fixed

- Deployment notes:

glite-LB metapackage is installed by yum. yaim configuration requires, at the very least, setting MYSQL_PASSWORD, SITE_NAME and SITE_EMAIL in the site-info.def file. Reconfiguration is required. reconfiguration by YAIM will restart the service automatically.
There was major restructuring of dependencies compared to L&B 2.x, caused by conversion to EPEL-based dependencies.

- Known Issues:

- Due to faulty DNS over IPv6 resolution in the c-ares library (v. 1.6.0), L&B does not work in most scenarios involving IPv6-only machines. Upgrade c-ares to 1.7.3 and relaunch yaim to get full IPv6 functionality.

#18716 gridsite v.1.7.11

Date: 15/03/2011
Component Release Notes:

What's new:

- Functionality concerned, this release provides the same as GridSite 1.7.9-3 released with gLite 3.2. There was a minor bug fix towards IPv6 compliance

- Deployment

Dependencies were restructured due to the conversion to EPEL-based depencies. Web-server must be restarted when installing the new version.

- Known Issues:

N/A

#18714 glite-proxyrenewal v.1.3.16

Date: 15/03/2011
Component Release Notes:

What's new:

- Functionality concerned, this release provides the same as ProxyRenewal 1.3.11 released previously with gLite 3.2

- Deployment

Dependencies were restructured due to the conversion to EPEL-based dependencies. The ProxyRenewal daemon must be restarted after installation.

- Known Issues:

N/A

#18713 glite-gsoap/gss v.3.0.1

Date: 15/03/2011
Component Release Notes:

What's new
- There is no functionality change compared to previous releases with gLite. There was a minor bug fix in gss
- Module versions have been updated to overcome previous versioning problems

Installation and configuration
- Install by yum -- typically installed automatically as a runtime dependency for other packages

Know issues
There are no known issues

#18712 SLCS v.0.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18711 Delegation Java v.0.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18710 Hydra v.1.0.1

Date: 15/03/2011
Component Release Notes:

NA

#18708 gLExec v.0.8.3

Date: 15/03/2011
Component Release Notes:

NA

#18707 LCMAPS-plugins-c-pep v.1.1.0

Date: 15/03/2011
Component Release Notes:

NA

#18706 LCMAPS v.1.5.0

Date: 15/03/2011
Component Release Notes:

NA

#18705 LCAS v.1.4.0

Date: 15/03/2011
Component Release Notes:

NA

#18704 Trustmanager v.3.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18702 VOMS-Admin 2.6.0

Date: 15/03/2011
Component Release Notes:

This is the first EMI release for VOMS Admin.

What's new:

- EMI packaging

VOMS admin has been repackaged to be compliant with EMI packaging policies.

Main changes:

voms-admin CLI is now installed in /usr/bin.
voms-admin-configure is now installed in /usr/sbin.
Configuration files for VOs are now found in /etc/voms-admin/<vo_name>.

- CERN OrgDB integration plugin

VOMS Admin now provides integration with the CERN organizational database.
When OrgDB integration is active:

- registration requests are validated so that only applicants present in the OrgDB can apply for VO membership.
- VO membership expiration time is linked to OrgDB membership expiration.

- Common VO SAML profile

This release of VOMS Admin provides a SAML attribute authority implementing the common VO SAML profile described
here [insert link]

- Bug fixes:

https://savannah.cern.ch/bugs/?7835...
https://savannah.cern.ch/bugs/?7834...

Installation/Configuration:

TBD

Known Issues:

TBD

#18701 lcg-info-clients v0.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18699 site BDII v.1.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18696 core BDII v.0.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18694 DGAS-sensors v.4.0.1

Date: 15/03/2011
Component Release Notes:

Release notes.

Modules:

emi-dgas-common
emi-dgas-hlr-clients
emi-dgas-hlr-sensors

Description

Provides the basic set of DGAS (Distributed Grid Accounting System) accounting sensors, which can parse

the LRMS and grid-jobmanager accounting logs and produce Usage Records for each job and send them to an accounting server.

Supported LRMS are: LSF,PBS/Torque,SGE,Condor

Changes since previous releases.

A new sensor is available, which replace the old one. The new sensor, although assuring backward compatibility, provide a pluggable infrastructure which makes it possible to change the Usage Record schema and the record transport protocol.

The current legacy usage record and communication protocol plugins are available. OGF-UR and ActiveMQ message producer can be added via the plugin infrastructure.

The sensor, right as in previous releases, is composed by two daemons, dgas-urcollector and dgas-pushd.
dgas-urcollector being responsible for retrieving the Usage Record information and dgas-pushd being instead responsible for the communication part. An important change from older version of the sensor is that now sqlite is being used to implement persistent IPC among the two daemons, which replaces the old, file based, mechanism.

An arbitrary number of DGAS accounting services can be used as information backends.

The configuration file has been simplified and sensors performance greatly improved.

The old sensor daemons, although declared obsolete are still provided within the packages to ensure a fail-back strategy for sites already implementing DGAS as an accounting system and not wanting to migrate right now to the new sensors.

#18693 APEL publisher v.3.2.6

Date: 15/03/2011
Component Release Notes:

What's new:
- APEL publisher allows VO filtering (list of VOs for which the site wants to publish accounting data to the central server) and mapping between local groups to VOs.
- APEL publisher can be run in only joining mode without contacting the broker.
- The publisher doesn't start the ActiveMQ session until the joining of records has been done, avoiding timeouts.

Deployment notes:
- The service must be reconfigured with YAIM after updating/installation.

Known issues:
- No known issues.

#18692 APEL parsers v.0.0.0

Date: 15/03/2011
Component Release Notes:

What's new:
- Logging of BlahdLogProcessor reduced.

- Check table for BlahdRecords removed.
- APEL parsers now reading benchmarking information when GlueClusterUniqueID or GlueSubClusterUniqueID is different than CE Id.
- APEL LSF parser now working for java 64bit.
- APEL LSF parser now normalising cpu and wallclock time per job using the hostFactor field in lsb.acct.
- APEL LSF parser now parsing lsb.acct file.
Deployment notes:
- No reconfiguration with YAIM needed.
- The APEL parser must be run with the <DBProcessor inspectTables="yes"/> option enabled the first time after upgrading.
Known issues:
- No known issues.

#18690 AMGA v.2.1.2

Date: 15/03/2011
Component Release Notes:

NA

#18688 GFAL/lcg_util v.0.0.0

Date: 15/03/2011
Component Release Notes:

NA

#18687 LFC v.1.8.1

Date: 15/03/2011
Component Release Notes:

NA

#18686 FTS v.0.0.0

Date: 15/03/2011
Component Release Notes:
NA

#18684 CEMon v.1.13

Date: 15/03/2011
Component Release Notes:

What's new
==========
CEMon can be optionally configured to use ARGUS as authorization system.

Publication of CEMon related information in Glue2

A couple of minor bug fixes

Deployment notes
==========
Yaim (re)configuration is required after installation/update

Since CEMon is deployed together with CREAM, please refer to the installation and configuration notes for the whole CREAM-CE

Known issues
==========
Known issues are reported in the CREAM-CE known issues page:

http://grid.pd.infn.it/cream/field....

This page is updated whenever a new issue is found

#18683 BLAH v.1.16

Date: 15/03/2011
Component Release Notes:

What's new
==========
Support for the new JDL attributes WholeNodes, HostNumber and SMPGranularity (see CREAM JDL guide)

Bug fixes

Deployment notes
==========
Since BLAH is deployed together with CREAM, please refer to the installation and configuration notes for the whole CREAM-CE

Known issues
==========
Support for the new JDL attributes WholeNodes, HostNumber and SMPGranularity is not yet implemented for SGE and Condor

Other known issues are reported in the CREAM-CE known issues page:

http://grid.pd.infn.it/cream/field....

This page is updated whenever a new issue is found

#18682 gLite-MPI v.1.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

- Support for user defined mapping of processes

- Support for SLURM & Condor schedulers
- Review of MPI implementations and schedulers
- Basic support for OpenMP
- Use command line options instead of environment variables.
- Added testing of most features
- Fixed installation paths, default installation now follows FHS

- Deployment notes:

No special installation requirements, no need for restarting services.
Yaim plugin available for configuration in WN and CEs

- Known Issues:

- Fine grained process mapping is not supported with Slurm or Condor schedulers.
- Shared filesystem detection only works in Linux.

#18677 ARC Core v.1.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

Features

- HED code cleaning as a preparation for Argus integration
- Implemented full request in Argus plugin using ARC schema
- Time resolution in HED enhanced till nanoseconds
- HED logging framework was extended to be compatible with external log rotation solutions
- More logging formats introduced for special cases
- Introduced per-thread objects handling for more fine grained logging
- Enhanced configuration framework to increase usability
- Support for Python3000 in language bindings
- Functionality improvements in XML handling
- Performance enhancements of Loader module by avoiding multiple loading/scanning of same pluging
- Added additional authorization protection in delegation interface classes
- New implementation of file locking. Now with timeouts and owner control.
- The nordugrid grid-update-crls security utility has been deprecated in favour of fetch-crl.
- Performance improvements of GridFTP module

Most important bugs:

- Bugfixes in Argus plugin enhancing robustness
- Run class loosing output produced by child process
- Run class slow while running quick processes
- Run class not behaving properly after fork()
- HTTP class was not handling all requests

- Proper lock around use of non-concurent thrird party libraries (like LFC, RLS)
- MCC loading failure were not detected
- Numerous fixes for making more features useful on Win32
- TCP connection interrupted by POSIX signal
- "Not implemented" error not handled properly in HTTP code
- VOMS handling code error not handled and causes segfault
- Utilities long options without short pair not recognised
- Numerous code fixes to comply with more strict compilers
- Numerous memory leaks and buffer overflow protections
- Amount of memory for thread stacks was not estimated properly on 64-bit CPUs.
- Detailed list of fixed bugs can be found in the ARC release notes.

Deployment notes:

- Note that this installation removes grid-crl-update and replaces it with fetch-crl and renders the nordugrid-arc-ca-utils package empty. For backward compatibility fetch-crl is enabled through cron.
- There are no changes in the HED deployment. After deploying the new version of the ARC Core, the HED can be started the usual way, no extra measures are necessary.

*TBD: explicitly specify every new configuration options!

Known Issues

- none

#18670 ARC InfoSys v.1.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

- Support for publishing resource information using LDAP rendering of glue2 within ARIS.
- Initial support for making ARIS act as a site-bdii (experimental).
- Improved file locking in the EGIIS index server relay utility.
- Stability fixes in both ARIS and EGIIS.

*TBD: list major bugfixes (by their short summary, not by their bugID)

Deployment notes:

- There are no changes in the Grid Monitor deployment.
- TBD: describe whether there is any change in the way the EGIIS, ARIS is deployed, is there any special steps/action needed when the services are upgraded?

- In order to keep publishing the same information as before in ARIS, no configuration changes are needed.
- New configuration options were introduced for enabling publishing new information in ARIS:

**TBD: explicitely give these new config options!!! such as

  - GLUE2 ldap
  - site info

**TBD: any other configuration change? it must be documented!

- There are no configuration changes for EGIIS

Known Issues

- none

#18669 ARC gridftp server v.1.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

- code cleanup: moved code over to the HED code base this way removing previous duplications
- Numerous code fixes to comply with more strict compilers
- Information about root of virtual file system was not reported properly
- Fixing code to work on non-Linux systems
- Fix for building without GACL
- Fixes for startup script to fit Fedora

Deployment notes:

- There are no changes in the ARC-gridftpd server deployment. After deploying the new version of the ARC-gridftp, the service can be started the usual way, no extra measures are necessary.
- There are no changes in configuration.

Known Issues
---

none

#18587 VOMS release v.2.0.0

Date: 15/03/2011
Component Release Notes:

Component Release Notes:

What's new:

Voms packaging has been changed to install into system directories. For example, this means that executables are in /usr/bin, /usr/sbin, configuration files in /etc/voms, etc...

A REST interface is available to obtain VOMS attribute certificates.

There are no longer dependencies on globus anywhere. However, on-the-wire compatibility with previous versions of VOMS is still maintained.

Compatibility with EPEL installation.
Installation/Configuration:

TBD

Known Issues:
None at the moment.

#18586 ARGUS v.1.3.0

Date: 15/03/2011
Component Release Notes:

What's new:

- First EMI release of the Argus Authorization Service.
- The Argus components have all been repackaged to be compliant with EMI packaging policies.
- A new thread-safe Argus PEP client library for C have been released.
- Support for the DPM/LFC banning engine have been added to the Argus PEP Server.
- Support for direct PDP XACML requests for UNICORE have been improved in the Argus PDP.
- Some minor bugs have been fixed.

- Deployment notes:

- The yum emi-argus metapackage is available to install the Argus Authorization Service.
- The yaim ARGUS_server node type is used to configure the Argus Authorization Service.

- Known issues:

- The common EMI XACML profile is not yet finalize, and not yet implemented by the Argus service.

#18584 StoRM SE v.1.7.0

Date: 15/03/2011
Component Release Notes:

NA

#18583 dCache v.1.9.12

Date: 15/03/2011
Component Release Notes:

https://twiki.cern.ch/twiki/bin/view/EMI/EmidCacheComponentReleaseNotesEMI1

(too big to put here)

#18582 DPM v.1.8.1

Date: 15/03/2011
Component Release Notes:

- Allow for relative paths in UNICORE 6 configuration file.
- Support for reservations.
- timeout and refresh interval for site discovery configurable. SF Feature 3160069 - https://sourceforge.net/tracker/?fu...
- Support for ServiceOrchestrator.
- Using EHCache instead of an unbounded(!) hash map for Site caching
- ComputeTask is called Job now for more clarity
- recursive import and export
- Tasks store error conditions for detailed inspection
- improved blocking on local tasks
- improved file caching
- import from and export to streams
- mkdir creates recursive directory strucures only if explicitly requested, otherwise refuses to create (resembles mkdir -p behavior)

#18581 UNCORE HILA v.2.2

Date: 15/03/2011
Component Release Notes:

v2.2

Features

- Allow for relative paths in UNICORE 6 configuration file.
- Support for reservations.
- timeout and refresh interval for site discovery configurable. SF Feature 3160069 - https://sourceforge.net/tracker/?fu...
- Support for ServiceOrchestrator.
- Using EHCache instead of an unbounded(!) hash map for Site caching
- ComputeTask is called Job now for more clarity
- recursive import and export
- Tasks store error conditions for detailed inspection
- improved blocking on local tasks
- improved file caching
- import from and export to streams

- mkdir creates recursive directory strucures only if explicitly requested, otherwise refuses to create (resembles mkdir -p behavior)

Bug fixes

- r8803 Better naming for orchestrators. Names are determined from the service URL now. Fixes SF Bug 3170586 - http://sourceforge.net/tracker/?fun...
- r8608 update cached status value, fixing #175
- r8515 Better handling of transfer tasks. Improvements and bug fixes.
- r7721 fixed bug where directory copy didn't create the target directory

#18580 UNICORE Client v.6.4.0

Date: 15/03/2011
Component Release Notes:

Release notes for UCC 6.4.0
==========

This is release 6.4.0 of the UNICORE commandline client UCC.

The user manual at

http://www.unicore.eu/documentation...

has detailed documentation and installation instructions.

What's new

UCC has been updated to the latest version 6.4.0 of the UNICORE libraries.

There are the following new features:

- the job lifetime can be specified in the .u file
- simple wildcards can be used for local file import/export

Installation and configuration

UCC can be installed either system-wide using the rpm/deb package, or by an individual user using the tar.gz or zip package.

Known issues

None.

#18578 ARC Clients v.1.0.0

Date: 15/03/2011
Component 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)
- TBD: mention, describe infosys CLIs as well
- TBD: add major fixed issues/bugs for compute part (see data area)

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 libracclient 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).
- TBD: describe configuration changes, new client config, optional re-use of old client config, so on.

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.

#18575 UNICORE XNJS v.1.4.0

Date: 15/03/2011
Component Release Notes:

NA

#18574 UNICORE TSI v.6.4.0

Date: 15/03/2011
Component Release Notes:

What's new in 6.4.0
==========

- the TSI is released as an RPM package

- it includes a resource reservation module for Maui/Torque.

Upgrade/deployment notes
==========
N/A, this is the first EMI release.

#18573 ARC CE v.1.0.0

Date: 15/03/2011
Component Release Notes:

What's new:

- ARC Compute Element (ARC CE) in EMI-1 "Kebnekaise" release is a major step forward with respect to previous releases, as it completes migration to the new code base.
- Grid Manager service, which was at the heart of ARC CE for a decade, is completely refactored and re-engineered, while keeping all of its key features that made it so reliable and attractive, including automatic data caching and staging. The "replacement" is called A-REX (for ARC Resource-coupled EXecution service), which is a more sustainable, scalable and extendible (e.g. via plugins) solution.
- A-REX provides a new WS-based interface in addition to the gridftp-based pre-ws interface, thus preserving backwards interface compatbility
- A-REX can publish, through the LIDI WS interface, GLUE2 XML information
- A-REX comes with set of information providers that can feed GLUE2 LDAP information into

the ARIS service
- A-REX comes with support for new back-end for the EDGI 3GBridged.
- As experimental feature A-REX offers improved input/output data handling framework
- As an experimental feature A-REX comes with and ARGUS authorisation plugin.
- The dynamic runtime environment module, the Janitor is another experimental new feature
- None of the experimental features are turned on by default, they offer preview of technologies to come in next releases.

*There were no major changes in the norduridmap utility.

- In total, 48 bugs in A-REX and associated components were fixed since the previous ARC CE release in October 2010. These included fixing configuration issues, problems with handling of some job description attributes (both JSDL and xRSL), glitches in some internal job states, and improving performance and functionality of batch system interfaces. Complete list of fixes is available in the extended ARC Release Notes.

Deployment notes:

- For sites deploying ARC 0.8.3 or ARC 0.8.3.1 releases, a smooth upgrade path via Yum is provided. Since this will imply switch from Grid Manager to A-REX, careful check is advised. Please refer to Grid Manager EOL notes (http://www.nordugrid.org/arc/gm-eol...) for details.
- To deploy a functional computing element one needs to install the new "nordugrid-arc-arex" package together with ARIS and gridftp server packages. The later two are necessary to provide interface backward compatibility. It is also recommended to deploy the gridma-utils package. A metapackage will be provided to enable easy installation of an ARC CE.
- To start the A-REX service use "/etc/init.d/a-rex start" (there is a compatibility grid-manager symlink provided too).
- By default, A-REX uses configuration file from the old Grid Manager. Configurations taken from previous ARC CE deployments should work out of the box.

*TBD: list here the new config parameters/options introduced with this release

Known Issues

- GLUE2 XML document published by A-REX is incomplete due to the absence of official XML rendering

#18568 WMS v.3.3.0

Date: 15/03/2011
Component Release Notes:

Component Release Notes:
What's new
==========

- Job replanning based on a fixed timeout.

Jobs stuck at blocking queues oftentimes represent an annoying issue which has been never specifically targeted by the WMS.
This new feature will allow to rematch/replan jobs after they sit in a given queue for too long.
This feature is enabled setting the JDL variable EnableWmsFeedback to "true"

For now, the queue removal timeout is centrally set in the WMS configuration.
[WorkloadManager]
ReplanGracePeriod = 1800;
in the same place another parameter exists to specifiy the maximum allowed number of replans
MaxReplansCount = 4;
after this threshold is reached the job is aborted.

- Adopting Gridsite 1.5.19 now allows the WMS to work with RFC-style VOMS proxies. Delegation-2 protocol is also supported
- Thanks to several improvements introduced by LB 2.1, a colocation scenario between WMS and LB server is now sustainable and encouraged.
- New attribute wmsrequirements, added to the configuration file in the WM section. This expression is appended in && to the user requirements:

requirements = (userrequirements) && (wmsrequirements);

The default value for this attribute (set by yaim) is:

WmsRequirements = ((ShortDeadlineJob =?= TRUE) ? RegExp(".**sdj$", other.GlueCEUniqueID) : !**
RegExp(".sdj$", other.GlueCEUniqueID)) &&
(other.GlueCEPolicyMaxTotalJobs == 0 || other.GlueCEStateTotalJobs <
other.GlueCEPolicyMaxTotalJobs) &&
(EnableWmsFeedback =?= TRUE ?
RegExp("cream", other.GlueCEImplementationName, "i") : true);

- WMS now considers in the matchmaking the value published for MaxTotalJobs
- When a collection is aborted the "Abort" event is now logged for all the sub-nodes as well
- Retry policies for ISB downaload and OSB upload are noew separated. The defaults coded in the jobwrapper template are:

ISB:
retry = 2
first_wait= 60

OSB:
retry = 6
first_wait= 300

- All attributes of a SA/SE can now be used in gangmatching
- Other bug fixes

Deployment notes
==========
Yaim (re)configuration is needed after installation/update

New yaim variable GLITE_LB_TYPE

Set this variable to "both" to allow the colocation between WMS and LB.
Otherwise, the variable must be set to 'proxy'

Know issues
==========

DAGs are not supported for submission to CREAM.

As typical for 64-bit architectures, the process virtual memory footprint might increase considerably. Given that, especially for WM and ICE, this was a concern even on 32-bit, an alternative malloc, as taken by the google
performance tools, is being automatically deployed, as part the metapackage and configured by yaim.

#18534 CREAM v.1.13

Date: 15/03/2011
Component Release Notes:

What's new
==========
CREAM can be optionally configured to use ARGUS as authorization system.

Support for the new JDL attributes WholeNodes, HostNumber and SMPGranularity (see CREAM JDL guide)

Initial experimental publishing of computing service information in Glue 2.0 format

Support of Outputdata JDL attribute in the CREAM CE (see CREAM JDL guide)

Bug fixes

Deployment notes
===============
Yaim (re)configuration is required after installation/update

New yaim variable SANDBOX_TRANSFER_METHOD_BETWEEN_CE_WN.
If the value for this variable is GSIFTP, the transfer of sandbox files
between the CE node and the WN is done using gridftp.
If instead the value for this variable is LRMS, such file transfer is done using the batch system staging capabilities. Default value: GSIFTP

New yaim variable USE_ARGUS
If the value for this variable is yes, ARGUS is used as authorization system for the CREAM CE.
If instead the value for this variable is no, the old authorization systems (i.e. gJAF, LCAS, LCMAPS) are used

Known issues
============
Known issues are reported at:

http://grid.pd.infn.it/cream/field....

This page is updated whenever a new issue is found