

ARC 7 status

Timeline

<https://source.coderefinery.org/nordugrid/arc/-/boards/412>

DONE:

- Documentation branching for ARC7: <http://www.nordugrid.org/arc/arc7/>
- Controldir new structure is available /up-to-date on the branch: <https://source.coderefinery.org/nordugrid/arc/-/tree/next>
- Propose a working process for the branch(es) for the ARC7 release work: by 13 May

ONGOING/NOT-STARTED

- Technical description of the restructured controldir is available: **late**
- Testing campaign for both controldir structure and REST interface: something has started but we will need more testing after the summer as well - **barely started**
 - Have release branch running on arctest-site-slurm-el7.cern-test.uiocloud.no:
<https://source.coderefinery.org/nordugrid/arctestsite-slurm-el7>
 - <https://bigpanda.cern.ch/jobs/?computingsite=ARC-TEST&computingelement=arctestcluster-slurm-ce1.cern-test.uiocloud.no>
- **Very first alpha for ARC7 is announced for developers: good if we can have something before the summer**
- Bug review day, decide what to fix for ARC7: **before summer**
- for ARC7 **half-day session 21.06.**
- REST 1.1 defined and implemented: **ongoing but late**
- All obsoleted components, code, library removed from ARC7 branch: **31st August**
- Upgrade procedure in place by **end of August**
 - No draining needed, the conversion happens by ARC automatically
- First release candidate **mid September**
- ARC7 is announced **5th November 2022**

Statements/conclusions ARC 7

- ARC7 packages and distribution will be very similar to ARC6, no major changes expected
- ARC7 configuration: no major changes, ARC6 config file will be compatible with ARC7 CE (modulo discontinued blocks/functionality)
- Server-client compatibility:
 - ARC6 clients will work with ARC7 CEs
 - ARC7 clients will work only with REST-based ARC6 CEs.
- Controldir restructuring, the major change in ARC7, is a transparent internal change within ARC7
- **ARC7 will deliver a REST-centric ARC CE with production-level token support.**
- ARC7 packages in all distributions will be named arc7 in their package names

Statements/conclusions ARC 7 - contd.

- ARC 6 support statements after the <release-date> of ARC7:
 - No new feature development is planned or going on for ARC6 and no bug-fixing development will happen on ARC6 code base in the future except for security issues.
 - Security fixes for ARC6 will be provided till the end of <release-date+1 yr>.
 - Production Sites already running ARC 6 will be able to get deployment and configuration troubleshooting help via GGUS till <release-date + 2 yrs>. This we call "operational site support".
 - ARC 6 will be available in EPEL 7- 9, in the future EPEL10, only ARC7 will be available. ARC 7 will be available in EPEL 7-9 with a different package name arc7
 - EPEL 7: arc, arc6, arc7
 - EPEL 8: arc (arc 6), arc7
 - EPEL 9: arc (arc 6), arc7 to-do rename to arc6
 - EPEL 10: arc7

NOTE: ARC 6 may need continued support for condor submission - to be clarified

ACTION: (Mattias) Rename arc to arc6 in EPEL9 - and the upcoming versions of Debian

Upcoming events

- Nordugrid conference week starting 26th September
- **ARC-CE hackathon** by Nikhef, Nordugrid, and the CHTC, in Amsterdam, NL September 15-16, 2022, to work on the interoperability between ARC-CE and HTCondor using token authentication. The goal of the hackathon is to have working end-to-end pilot jobs submitted to ARC-CEs using only tokens for the authentication, authorization, mapping, etc.
 - Thu-Fri September 15-16, 2022, Science Park 125, 1098 XG AMSTERDAM, Registration: <https://indico.nikhef.nl/event/3612/>
 - If time permits, there will be a design discussion on higher level token management (i.e., the ARC data staging model) for the workflows beyond pilot job submissions.
 - The hackathon will be co-located with the CVMFS workshop (<https://indico.cern.ch/event/1079490/>) September 12-14, 2022 and the WLCG Grid Deployment Board (GDB) September 14, 2022 (<https://indico.cern.ch/event/1096034/>).

References

- ARC 7 Technical workshop: <https://indico.lucas.lu.se/event/2342/>
 - Minutes:
<https://docs.google.com/document/d/1qjBivNwakbyd1Xr-P4uB0cHiSY6zV2-M7JzbUVcNPVk/edit#heading=h.mfn0fco0779f>
- Documentation WIP: <http://www.nordugrid.org/arc/arc7/>