



Token Transition update

GDB, 13 December 2023

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v1.1

Computing (1)

More details in
[Sep GDB update](#)

- Second EGI [campaign](#) was launched on Nov 3
 - HTCondor CE v5 + condor v9.0.19 ← using the [WLCG repository](#)
 - It allows X509 / VOMS proxy *identities* (no FQANs) to be mapped via the **SSL** method
 - Clients relying on SSL mappings also need to use a recent condor version
 - A fatal flaw was then discovered at a few sites: the desired *fallback* from SSL to GSI did **not** work
 - Somehow this had not been spotted in the many tests...
 - The fix turned out to be quite non-trivial and took a few days to design and test – thanks very much to Jaime Frey from the HTCondor Team!
 - The campaign then was restarted with **v9.0.20** on Nov 17
 - Out of 53 tickets, 10 are solved, many in progress, several on hold
 - Most sites will work on this as of early next year – reminders will be sent
 - Some sites prefer upgrading to **EL9** at the same time, but **APEL client & parsers** **not** yet available for that platform → to be followed up with priority

Computing (2)

- Third EGI campaign to be launched in the spring of 2024
 - When all customers of a CE can be mapped through **tokens or SSL**, i.e. no longer need **GSI** support, the CE can be upgraded to HTCondor CE **>= v23** with condor **>= v23**
 - To get all HTCondor CEs on fully supported versions
 - Those recent versions also support the plug-in call-out for **EGI Check-in tokens**
 - **Mind this setting for APEL:** `USE_VOMS_ATTRIBUTES = True`

IAM service developments

- Upgrade tests for v1.8.3 ran into some setbacks
 - Issues encountered at CERN that were not seen at CNAF
 - More fixes were then deemed important enough still to be included
 - Latest release candidate was tagged on Monday and tested OK on Tuesday!
 - We still intend to do the upgrades this year
- An instance for the “dteam” VO became available on Dec 7
 - The first instance on Kubernetes at CERN
 - Other instances are still on OpenShift
 - [EGI broadcast with LSC file details](#)
 - VOMS client details will also be published soon
 - Users are imported from the VOMS-Admin service until its retirement
 - Expected to happen in a few weeks!
- Other small VOs at CERN will also get their IAM instances
 - As of early 2024, to allow them to get their token clients into production ASAP
 - VOMS(-Admin) service EOL == CentOS 7 EOL, or earlier if possible

AuthZ WG items (1)

- IAM v1.8.1 security update broke ALICE & ATLAS token renewal
 - The clients turned out to have been making use of a behavior that was only allowed due to the bug that got fixed
 - Addition of scopes by the client owner, but not consented to in the registration
 - The clients had to be re-established
 - Easy to do, but with unwanted operational repercussions
 - The matter was debated, but currently moot, because enforced by the underlying third-party framework
- A lot of issues and PRs have piled up for the WLCG token profile
 - Implementors know where to deviate from what v1.0 specifies
 - An updated version is expected early next year: v1.x or even v2.0
- The CHEP paper has been written
 - Some minor comments were received, still to be addressed

AuthZ WG items (2)

- A new WG was proposed and has started in the meantime: the **Grand Unified Token profile** WG
 - To try to establish a common base profile for AARC / EGI Check-in, SciTokens and WLCG tokens
 - In particular to determine the VO, groups and roles of tokens
 - Each profile can then have its own extensions
- The **Token Trust & Traceability** WG has discussed its scope and a first “test case” was proposed: XRootD token how-to
 - Configuration
 - Logs
 - Debugging
 - Testing → the “dteam” VO should also serve token use cases!
 - IAM tokens could be used in parallel with EGI Check-in tokens for “dteam”
 - The “wlcg” VO hosted at CNAF is for developers

DC24 workshop & DOMA (BDT) meetings

- Tokens featured in several workshop presentations – in particular:
 - FTS & Tokens
 - Storage & Tokens
- The DOMA meeting of Dec 6 had the Rucio presentation
 - ATLAS and CMS token behavior in DC24 should be the same by design, as there will not be much flexibility yet in the Rucio token configuration
- Though tokens are still deemed an optional ingredient in DC24, the plan is to have them used where possible right from the start
 - When source & destination of a transfer both support tokens
 - If a given SE fails transfers due to its handling of tokens, it can be switched to VOMS proxies instead
 - We should thus gain operational experience at a big scale and discover which things need to be improved where for the required reliability etc.
 - There are **no** concerns about token rates at this time

Conclusions and outlook

- The main token objectives at this time are still about:
 - Data transfers – preparations for **DC24**
 - Computing – HTCondor CE versions that no longer support **GSI**
- There are 2 new WGs to try and help simplify what developers and sysadmins are confronted with to support tokens
 - The **GUT profile** WG aims to give relevant profiles a common base
 - The **TTT** WG aims to provide recipes for dealing with token matters
- To be continued...