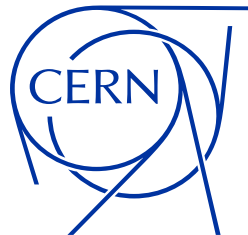


Rucio Token Status Update

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WLCG token transition timeline

Milestone ID	Date	Description	Dependencies	Teams
M.8	Mar 2024	Sufficient storage endpoints support tokens to allow DC24 to be done using only tokens. <i>Done; functional but still gaining maturity</i>		Storage devs, WLCG ops, sites
M.9	Mar 2025	Grid jobs use tokens for reading and stageout. <i>In progress; on track</i>	M.8	Experiments, WLCG ops, sites
M.10	Mar 2026	Users no longer need X509 certificates.	M.9	Experiments, MW devs, CERN IT

Refer to the [official document](#)

Central deletion & third-party-copy transfer

- First demonstrated at scale during DC24
- Workflows are stable, but not yet settled on the token characteristics (i.e. scope and lifetime)
 - On-going experiments by ATLAS and CMS
 - Need to offer a functional and secure default configuration, but allow communities to make their own informed decisions
- No changes required in Rucio to support tape storages

Client download and upload

- On track to be delivered in the upcoming Rucio releases as a technology preview
 - Download at first; upload later
 - WebDAV-only at first; XRoot later
- Need to think about token traceability
 - Adding this information will scale the number of active tokens by the number of accounts, which should not be prohibitive

Concerns

- Too many combinations of choices, always with advantages and disadvantages; unclear optimal configuration
- Lack of experience with IAM capabilities
- Unintentional deviations from the token profile specification
- Inability to affect the token lifetime per request restricts flexibility

Thank You