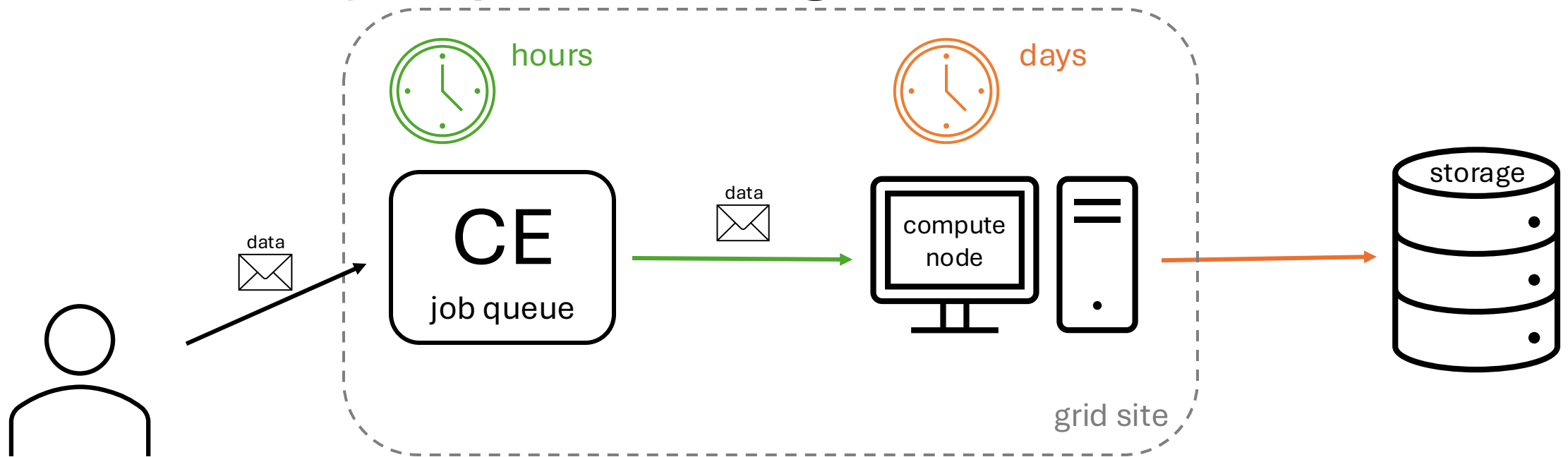


# Token Lifetime for Queued Scenarios

February 4th, 2025

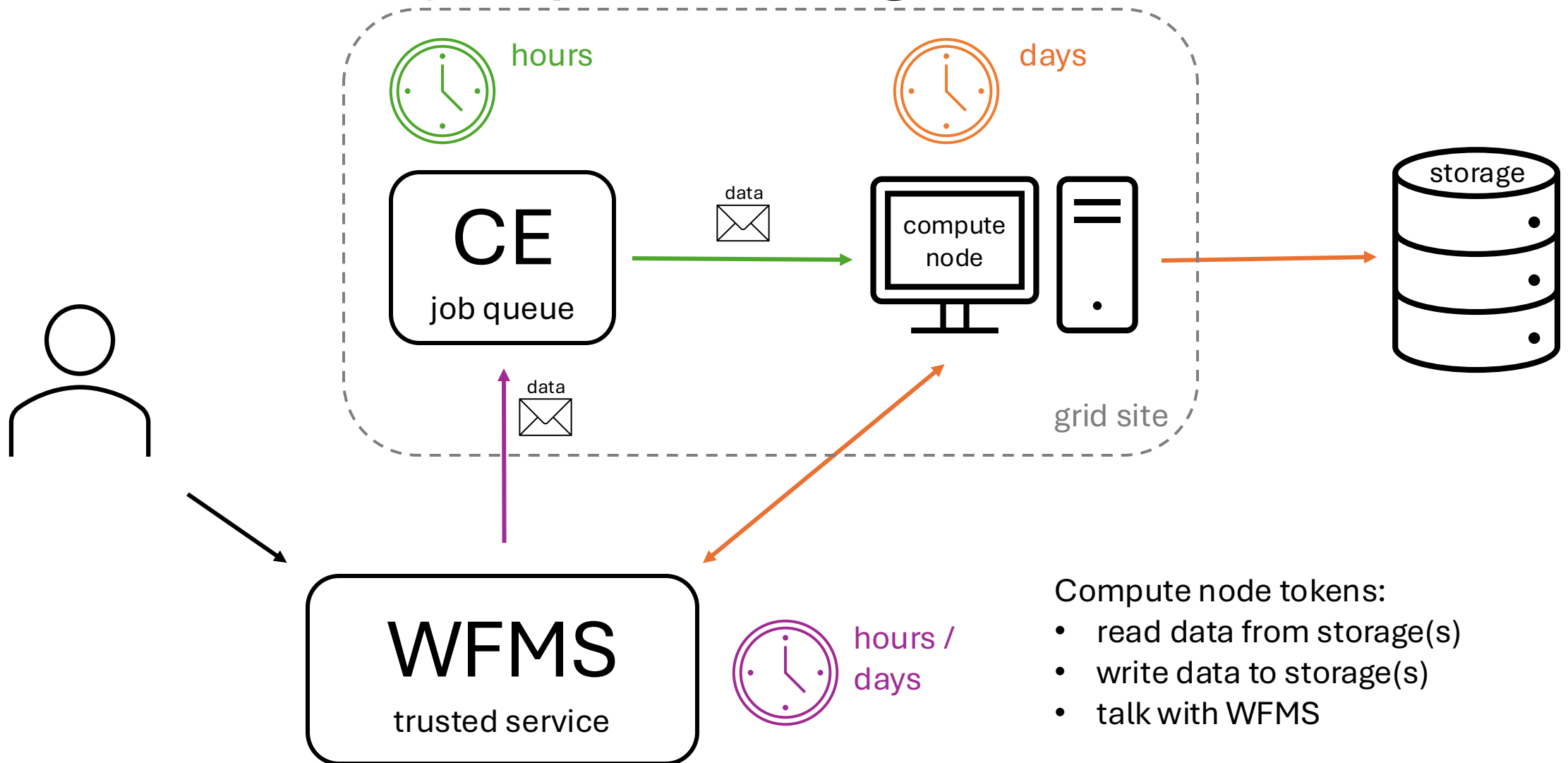
# Grid batch job processing



Compute node tokens:

- read data from storage(s)
- write data to storage(s)

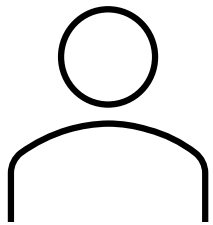
# WLCG batch job processing



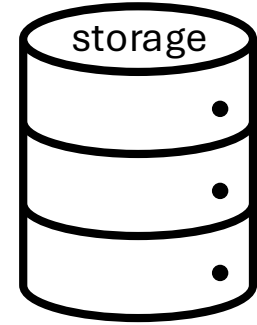
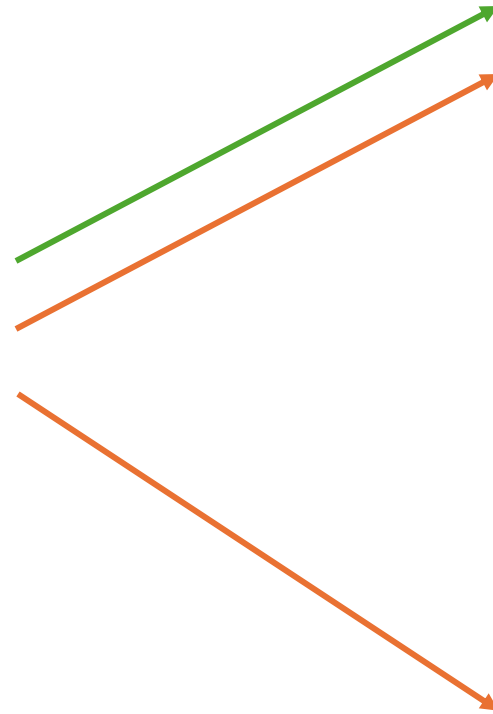
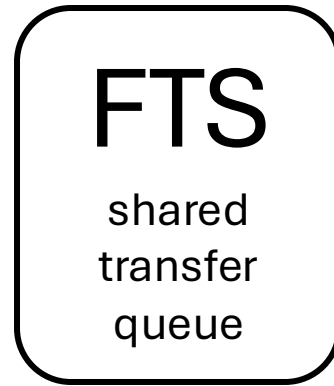
# Data distribution

FTS tokens:

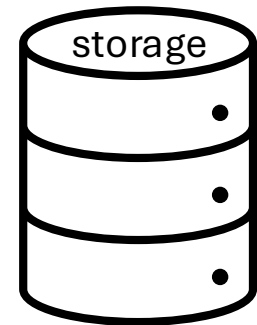
- read data from source storage(s)
- write data to destination storage
- talk with TAPE REST API



hours or  
days for  
TAPE



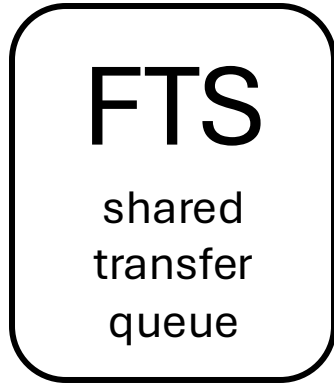
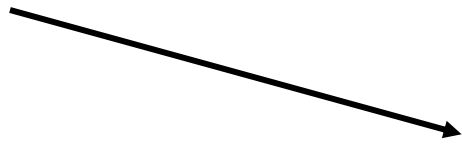
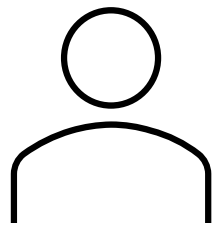
hours



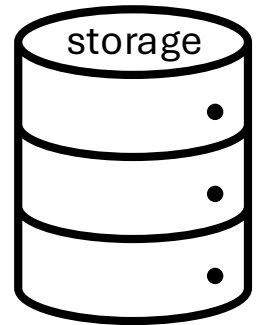
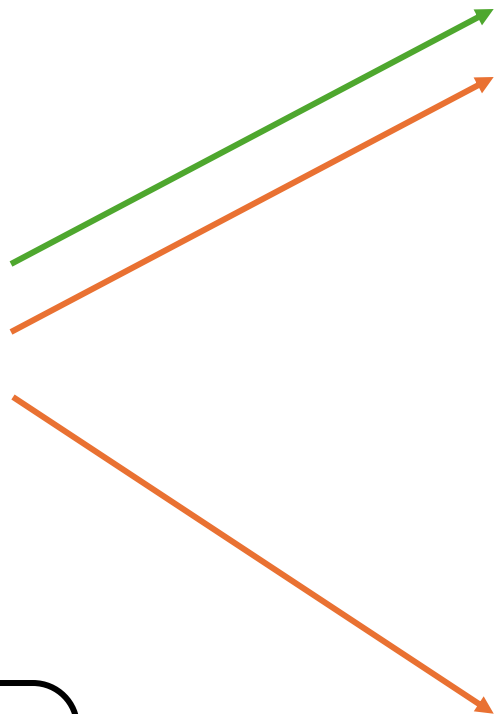
# Data distribution

FTS tokens:

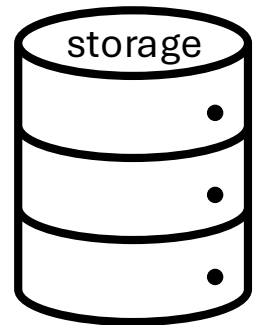
- read data from source storage(s)
- write data to destination storage
- talk with TAPE REST API



hours or days for TAPE



hours



hours

# Tokens & async workflows

- Access tokens lifetime ~ minutes
- Experiments generally use long-lived proprietary credentials
  - Queued tasks (hours / days)
  - Task processing (hours / days)
- OIDC tokens
  - Long lived access tokens not allowed (token profile lifetimes)
  - [Ersatz client](#) would kill token issuer (performance)
  - Refresh tokens not good idea and could still cause troubles to issuer
- WLCG experiments – millions of transfers and jobs per day
- Are these "queued" use-cases completely outside of OIDC tokens scope / does it mean software developers always needs to come with their own original solutions

**BACKUP**

# Design

- GlideIn WFMS
- ALICE / VOBox(?)
- [Panda WFMS](#)
- FTS
  - [token-exchange mode](#)
  - long-lifetime mode for source and destination AT
    - dedicated AT sub-issuer (avoid performance problems)