Credentials delegations in A-REX
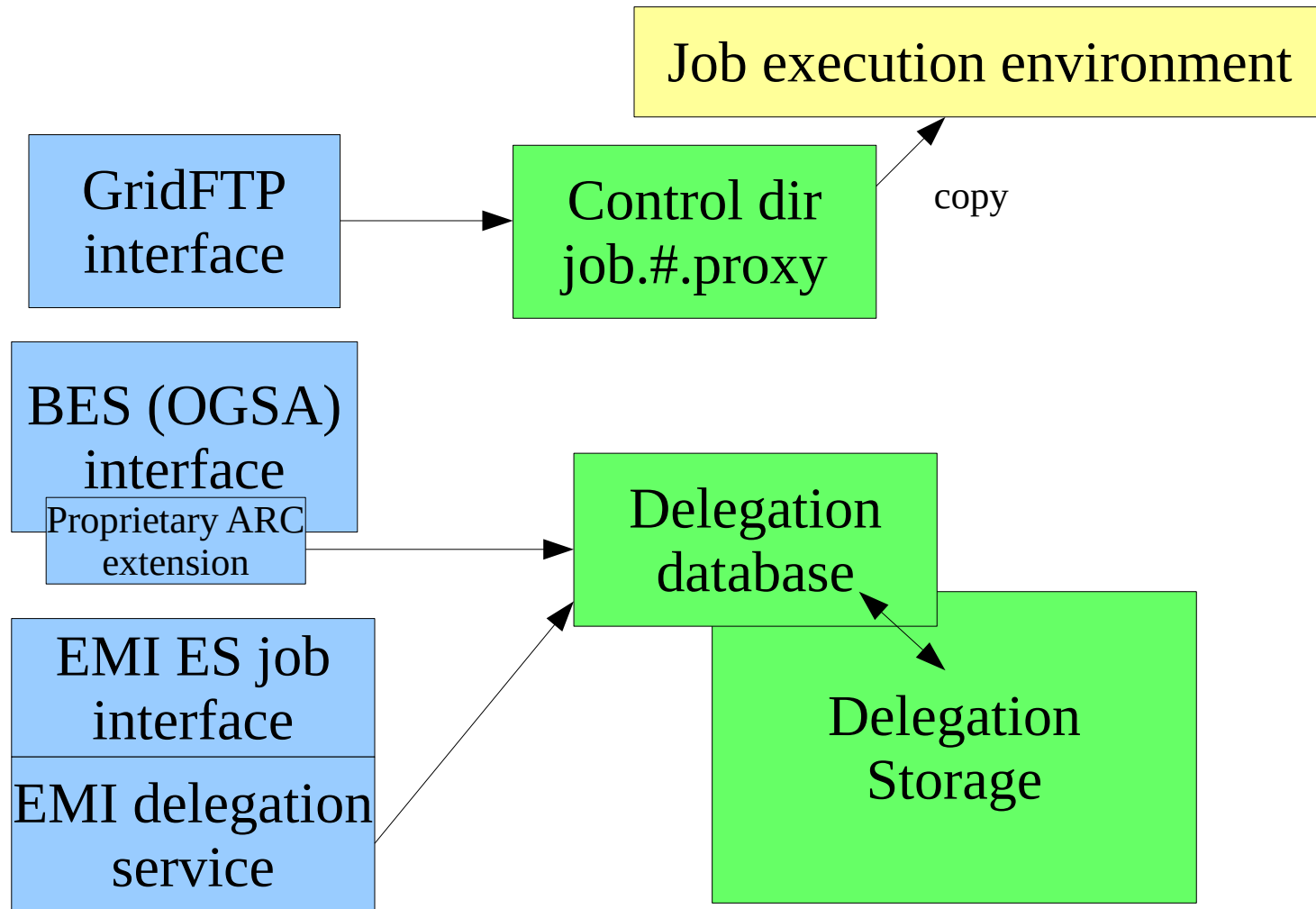
Aleksandr Konstantinov

Not so distant past

- Various delegations interfaces inside same service

- Various delegation implementations

  ◇ Per-connection

  ◇ Per-job optional with private key optionally shared

  ◇ Per-file optional shared among multiple jobs

- Various ways to store delegated credentials

- Various ways to associate them with computational jobs

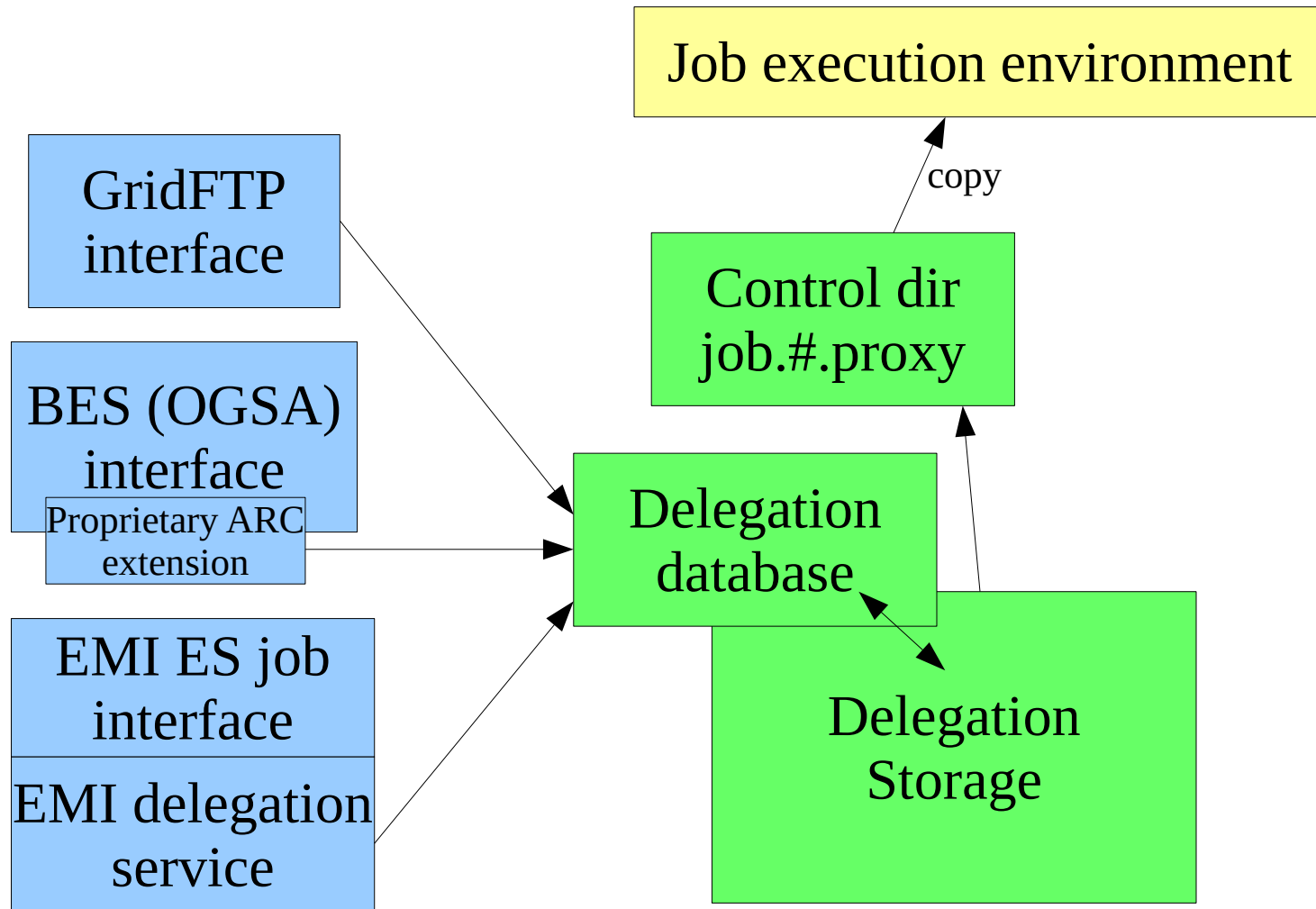# Not so distant past

Job execution environment

GridFTP interface

Control dir job.#.proxy

copy

BES (OGSA) interface

Proprietary ARC extension

Delegation database

EMI ES job interface

EMI delegation service

Delegation Storage

Current release

- **Stays**
  - Support for multiple delegation interfaces
  - Multiple implementations (inherited from GridFTP)
- **Changed**
  - Unified delegations storage
  - job.#.proxy simulated for backward compatibility

Current release

Not so distant future

- Drop job.#.proxy

- Replaced by dedicated local delegation provider

  – Proper checking for user permissions

  – Proper checking for job association

  – Probably dedicated *suid executable*

  – Maybe also local client+service for proper delegation inside cluster

Not so distant future

GridFTP interface

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