

# Grid collaboration

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# Grid AAI principles

- X.509 PKI based authentication
- RFC 3820 proxy certificates - delegation
- VO driven authorization (VOMS)

# Grid authentication infrastructure

- International Grid Trust Federation
  - EUGridPMA, APGridPMA, TAGPMA
  - ~ 60 CAs
  - authentication profiles, certificate profiles, trust anchors distribution

# IGTF authentication profiles

- “Classic” CAs
  - face-to-face identity vetting
- Short-lived Credential Services
  - based on institutional IdMs – credentials live < 1Ms
- Member Integrated X.509 Credential Services
  - based on institutional IdMs – long-lived credentials

# Credential converters - examples

- CERN
  - CA for subjects in CERN user database
- SWITCHaai
  - Shibboleth-driven CA
- SURFnet, CESNET
  - converting IdP assertions to X.509 certificates
- Authorization
  - GridShib (GTK 4.x!)

# Parties to watch

- IGTF/EUGridPMA
- OGF (successor of GGF)

# (Work) Items to share

- trust anchors repository (TACAR)
- (some) policies
  - compatibility of LoA for institutional IdM-based AuthN services
- AA services
  - accrediting SCS with EUGridPMA
  - NREN federated AAls to serve users of grids
  - more...