



PARTNERSHIP FOR
ADVANCED COMPUTING IN EUROPE

PRACE

Identity Management

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PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

PRACE Tier-0 systems

- Six Tier-0 systems in production
 - JUQUEEN@GCS/FZJ
 - CURIE@GENCI/CEA
 - HORNET@GCS/HLRS
 - SUPERMUC@GCS/LRZ
 - FERMI@CINECA
 - MareNostrum@BSC
- ~18 Pflop/s in total





Tier-1 Infrastructure

- National sites which provide part of their resources through the DECI optional programme for European research
- 23 sites operational
- PRACE Common Services provide a common view of the PRACE infrastructure



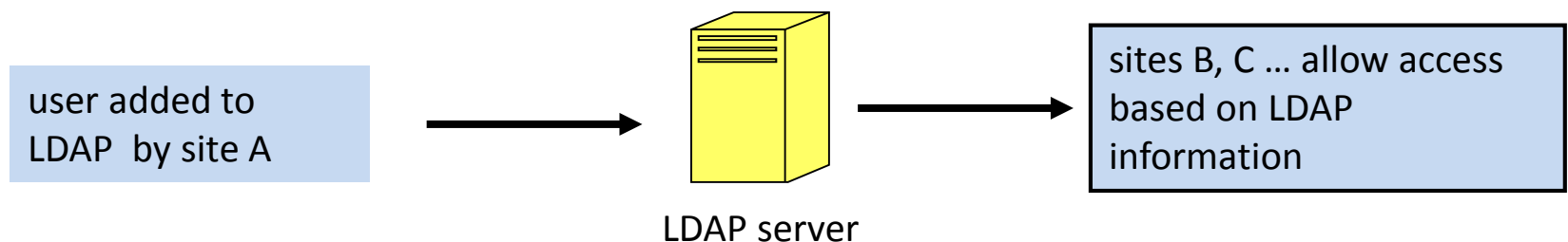
PRACE Common Services

- Dedicated network
- Data services
 - Data transfers among sites with GridFTP
 - Data mgmt. facilities
- Compute Services
 - Uniform remote job submission – UNICORE
- AAA Services
 - User administration, Accounting
- User Services
 - Common user environment on systems



Authentication and Authorization

- Login (ssh) to Tier-0 sites managed by the sites
- Common Services AuthN & AuthZ is based on X.509 certificates. IGTF accredited Certificate Authorities
- User information maintained in a common repository (LDAP access). Content is managed by sites
- Sites import data from the server

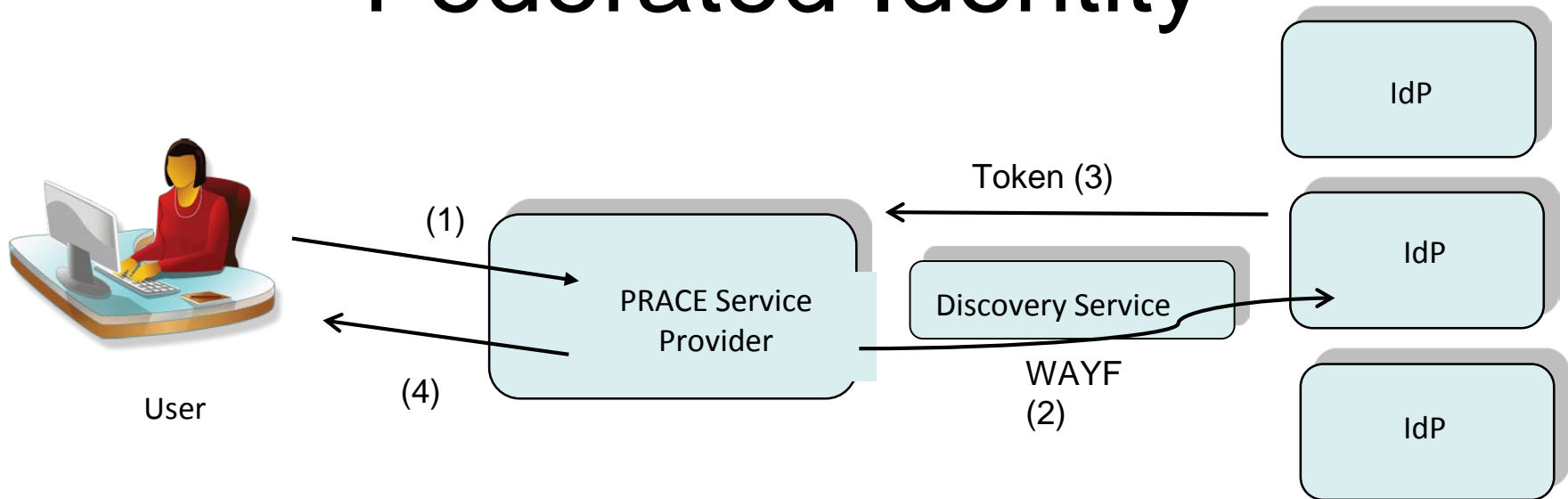




Identity Management

- LDAP repository contains some 20 attributes about user accounts, both personal data (e-mail, phone) and permissions (which systems the user should have access to)
- Sites are responsible for the correct information

Federated Identity



- The problem is that the token from an external IdM doesn't say anything about the authorizations of the user.