



Short Lived Credential Service SLCS

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Outline

- **Background**
- **What is SLCS?**
- **Document overview**
- **Examples**
- **Issues and Status**
- **Future Profiles?**

Background

- **IGTF WG's work on Grid Authentication**
- **Establish Authentication Profiles at GGF**
 - **Handle trust mitigation in dissimilar Authentication systems**
- **SLCS is our second profile**
 - **Classic X.509 profile – maintained by EUGridPMA**
- **SLCS is maintained by TAGPMA**
- **It is derived from the EUGridPMA minimum requirements, version 4.0.**

What is SLCS

- **A translation of a local site's native Identity to a Grid Identity.**
 - **A KCA can translate a local Kerberos Identity to a Grid Identity.**
 - **MyProxy can be integrated to some sites**
 - **Active credential repositories – different AuthN profile.**
- **Identity is validated by site security office**
- **Leverages Site help desk and customer support**
- **Possible local site service candidates:**
 - **Kerberos, Windows Domain, LDAP, One Time Password and Long term Certs.**

SLCS Profile sections

- **Identification**
 - Title, version, date and OID
- **General Architecture**
 - A SLCS is an automated system to translate the local site identity into a Grid identity. End entity identity validation is based on the local site authentication system.
- **Identity**
 - Every DN in a short lived certificate must be linked to one and only one End Entity at the Site/Organization.

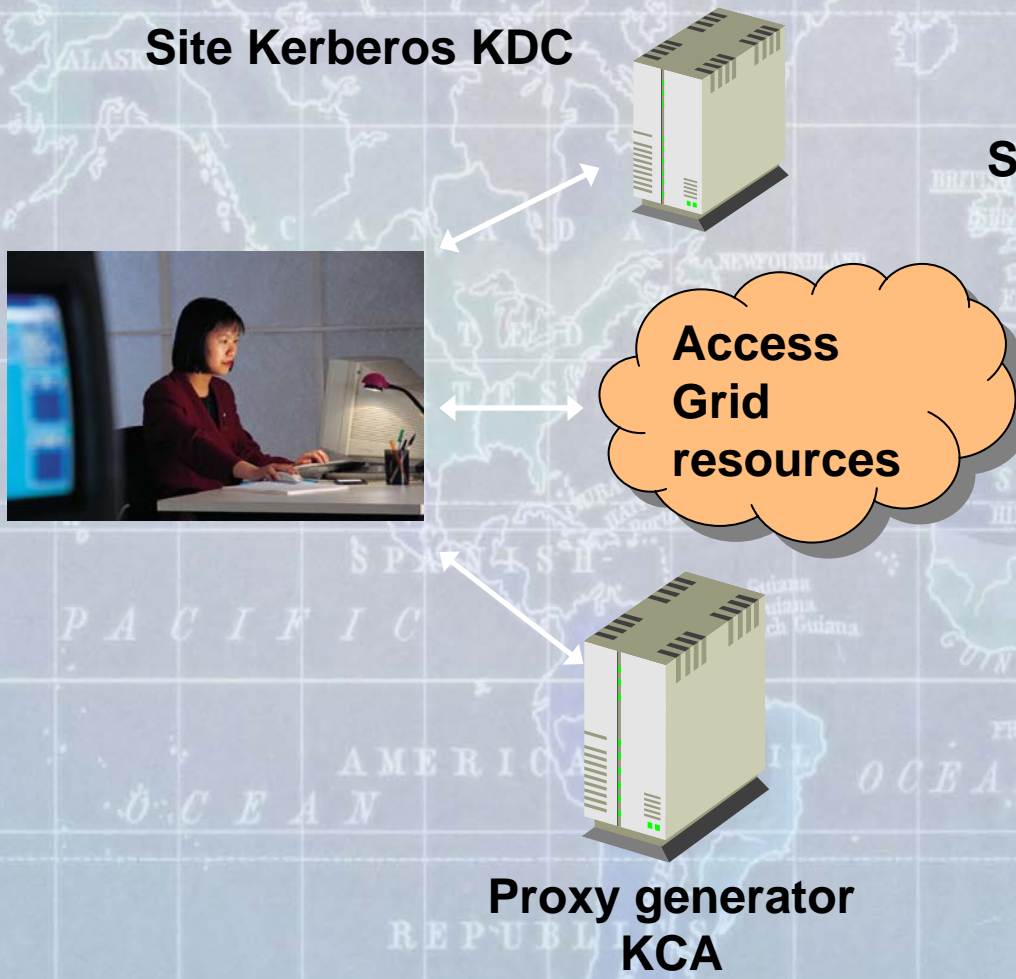
SLCS profile sections cont'

- **Identity Translation rules**
 - **A SLCS must describe in their CP/CPS:**
 1. How the identity (DN) assigned in the certificate is unique within the namespace of the issuer.
 2. How it attests to the validity of the identity.
 3. How it provides accountability, show that they have verified enough identity information to get back to the physical person any time now and in the future
- **Operational Requirements**
 - **Security controls for: Data center, System, CA private key, etcetera...**
 - **Certificate and CRL profile**

SLCS profile sections cont'

- **Site Security**
 - Protection of Private key , authorized personnel.
- **Publication and Repository responsibilities**
 - Each SLCS authority must publish for their subscribers, relying parties and for the benefit of distribution by the PMA and the federation ...
- **Audits**
 - Must keep records... must accept audit by other accredited CAs...
- **Privacy and confidentiality**
 - Accredited SLCS CAs must define a privacy and data release policy compliant with the relevant national legislation.
- **Compromise and disaster recovery**
 - The SLCS CA must have an adequate compromise and disaster recovery procedure...

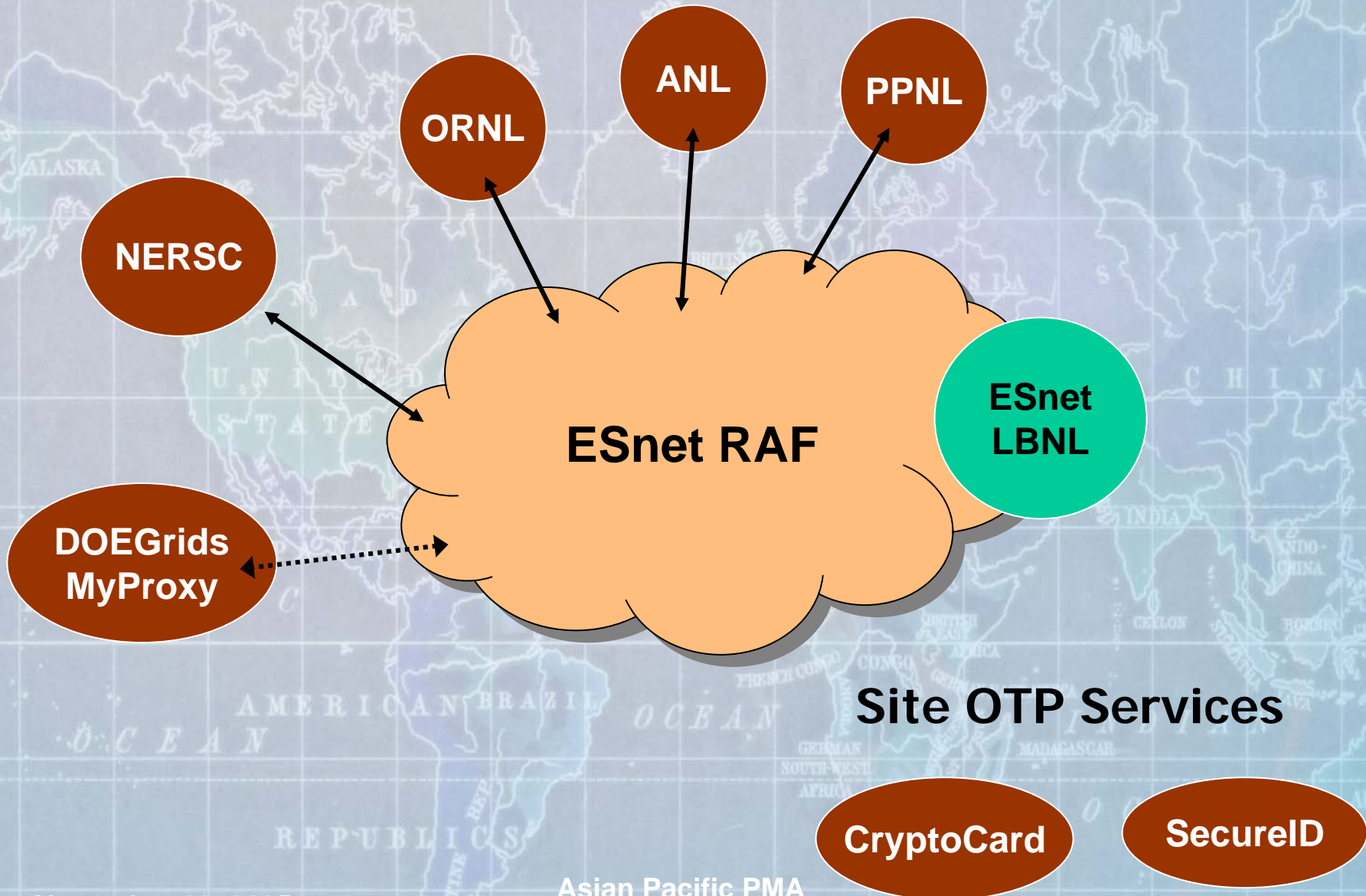
Example: KCA



Synopsis of steps for Grid User:

1. Register with Fermilab
 1. Get your Fermilab VID
 2. Get your Kerberos Principal
2. Install the Fermilab KCA certificate and signing policy;
3. Install the KCA client software;
4. Generate proxy access Grid

Example: RADIUS multi site MyProxy



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Issues and Status

- **Name recycling**
 - Sites reuse names after some period
 - Relying parties want Grid identities to be unique for all time.
- **Clarification of operations**
 - End entities must be able to sign Proxies
 - Non-issue covered by Proxy RFC?
- **Status**
 - Voting started on version 1.1
 - Scheduled to Complete December 7th

Future Profiles ?

- **Active Credential Stores**
 - MyProxy - with long term certificates
- **Radius Federations**
 - Eduroam profile
- **Common Minimum profile?**
 - Basic operations all profiles must conform to.