

Grid Certificate II

Obtaining a certificate



Outline

- ❑ Available CAs
- ❑ Obtaining a Grid Certificate
- ❑ Certification procedure
 - Authentication & Authorization
 - Certificate Authority (CA)
 - Registration Authority (RA)

Available CAs

- ❑ CA request
- ❑ Many CAs. Which one is for me?
 - Different CA for each country
 - Browse here to find your local CA:

<http://www.eugridpma.org/members/worldmap/>

... eg. for Netherlands CAs are:

- ✓ Terena eScience: https://tcs-escience-portal.terena.org/about_nren.php
- ✓ DutchGrid: <http://www.dutchgrid.nl/>

... for the course: no need for Certificate request, demo certs provided.

Obtaining a Grid certificate

- ❑ **After sending the Grid certificate request:**
 - RA will check your ID in person
 - RA is delegated from CA
 - Other CAs speed up the process
 - ✓ Instant certificate provision
 - ✓ Based on existing credentials of your affiliation
 - ✓ eg. TERENA e-Science

- ❑ **After approval, the user receives the certificate:**
 - `usercert.pem` or `usercert.p12` format
 - Use `openssl` to convert from one format to the other

Grid certificate in possession

- ❑ **Two file residing in your computer:**
 - usercert.pem (public key/ received from CA)
 - userkey.pem (private key/ initially created locally)

- ❑ **Protect your private key!**
 - Set permissions
 - Secure password
 - Do not share

- ❑ **Renew after a year**

- ❑ **In case of loss, revoke the certificate**