GÉANT eduPKI
in 3 Slides
Servicing GÉANT Services

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Slides & Related Materials @

https://www.edupki.org

Outline

The 3 building-blocks of eduPKI are

1. **eduPKI Policy Management Authority** – eduPKI PMA
    which sets the coordinating frame and quality standards with its governing documents for eduPKI participants

2. **eduPKI Certification Authority** – eduPKI CA
    which supplies GÉANT Services with SSL certificates

3. **eduPKI's Trust Anchor Repository** – TERENA Academic CA Repository (TACAR)
    which provides a trustworthy download service for CA certificates for eduPKI participants

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eduPKI PMA

Policy Management Authority (PMA)

- manages Policies of Public-Key-Infrastructures (PKIs) and their Certification Authorities (CAs) – focus on SSL certificates

- interacts with **GN services** (the *Relying Parties*) to assess their PKI security requirements; if SSL certificates fit, offers solutions to address the requirements by defining requirements as *Trust Profiles*

- interacts with **NREN CAs** to engage them

    - CAs adopt Trust Profiles and get accredited by PMA

- publishes the Trust Profiles and a list of accredited CAs in TACAR

https://www.edupki.org/edupki-pma/

eduPKI CA

Certification Authority (CA)

- eduPKI's own CA issuing SSL certificates to **GN services**

    - for try-out, demo, test and proof-of-concept purposes

    - to support *those* **providers and users of GN services** that cannot use any NREN CA service for *suitable* SSL certificates for their GN service

- running in established DFN-PKI trust-centre which is providing the environment for its secure operation

- governed by its policy documents, i.e. Certificate Policy (CP) and Certification Practice Statement (CPS)

- accredited under the eduPKI Trust Profiles for "eduroam Certificates" and "Certificates for GÉANT's Multi-Domain Network Services"

- 2 specific Registration Authorities (RAs) for GN services: eduroam and GN's Multi-Domain Network Services

https://www.edupki.org/edupki-ca/

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TACAR – eduPKI's CA Repository

CA Certificate Repository

- utilizing TERENA's TACAR

- secure & trustworthy trust anchor repository provides a central repository for **providers of GN services** (the Relying Parties) to find / download

  - (Root-) CA certificates of mainly NREN / project PKIs

  - CA's policy documents & contact info

- TACAR provides one *TACAR Trust Category* per eduPKI Trust Profile

- TACAR lists all accredited compliant CAs under the pertinent TACAR Trust Category

- Relying Parties can find / download all accredited CA certificates under a specific TACAR Trust Category with a view clicks

https://www.edupki.org/tacar/

My last slide

We're going to continue to deliver a stable service.

Thanks for your attention.

Questions?

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