

# 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

## 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/>

## 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/>

# 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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