

Introducing the **DFN-PCA**

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What / Who is the DFN-PCA?



- Policy Certification Authority and PKI knowledge center for the German national research and education network DFN
- Providing certificates and PKI support for our constituency
- Main constituency: Member organisations of the DFN, G-WiN costumers, orgs from the research & educational sector, public & non-profit orgs / associations / societies
- We are part of the DFN-CERT Services GmbH which is also operating the CERT for the DFN

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- PGP "certificates" for (Sub-)CAs and users
- X.509 certificates for (Sub-)CAs, servers and soon users

CAs operated directly by the DFN-PCA:

- PGP Root CA
- PGP User CA
- X.509 Root CA
 - Root certificate is not pre-installed in browsers and other client applications
- X.509 Server CA

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Current certification policies



- PGP Low-Level Policy for PGP certificates
- WWW-Policy for X.509 certificates
- General conditions
 - **Personal** registration and identification by identitycard / passport
 - No key escrow, no key recovery
 - No full-automatic certificate generation

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New DFN-PKI strategy



- X.509
 - Directed at DFN G-WiN customer organisations
 - *"Advanced electronic signatures"* in terms of German el. signature law
 - Two new RFC 3647 compliant certification policies (primary language German, English versions will follow):
 - Basic
 - Classic
 - Sub-CA and RA hosting at DFN-PCA
 - Bulk / mass certification services by DFN-PCA
- PGP
 - PGP CA services are continued as of today

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Basic Policy



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- · Less strict than Classic- and current WWW-Policy
- New root certificate, not pre-installed in browsers
- Key escrow allowed
- If properly identified, full-automatic certificate issuance possible
- More identification and authentication methods e.g. via
 - Personal identification (identity-card / passport)
 - PostIdent
 - Traditional letter by postal service (only if existing internal relationship between host organisation and subscriber, e.g. student to university)

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CA & RA organisation

- Sub-CA & RA within the organisation (as now)
- RA within the organisation, Sub-CA hosted at DFN-PCA
- Sub-CA and RA both hosted at DFN-PCA
- Personal bulk / mass S/MIME and client certificates
- Server / machine certificates
- Generic CA & RA for personal bulk / mass S/MIME & client and server / machine certificates operated by DFN-PCA for members that have no specific CA of their own (conditions are discussed at present)



Thanks for your attention!

If you want to use this opportunity to enroll and identify yourself personally for a certificate, please contact me in the lobby during the workshop.

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