### Forschungszentrum Karlsruhe

in der Helmholtz-Gemeinschaft

## **GridKa-CA software**

Forschungszentrum Karlsruhe GmbH
Institute for Scientific Computing

PO Box 3640

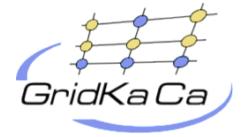
D-76021 Karlsruhe



https://gridka-ca-sec.fzk.de

**GGGG** 

## **GridKa-CA software – outline**

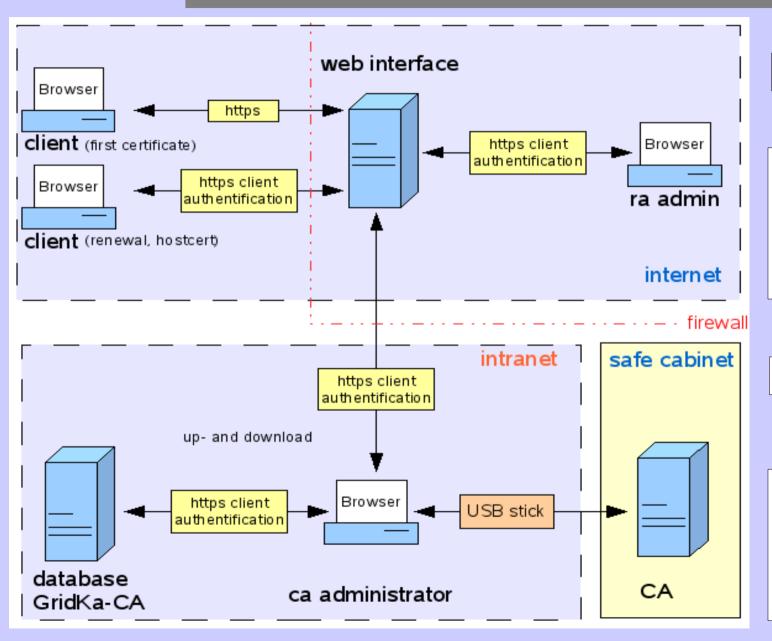


- Overview & technical information
- Architecture
- User webinterface
- RA webinterface
- CA admininterface
- Language support

## Overview & technical information

- Supports "pure" openssl-CA
- Developed by Juergen Glowka and GridKa-CA-managers at Forschungszentrum Karlsruhe within the D-Grid project
- Based on LAMP Linux, Apache, MySQL, PhP
- Webinterface: Any browser is supported (except Konqueror)
- No limitation of Ous or RAs
- Will be published under Apache Licence
- Has a translation module for other languages (Lareed)
- Creation of statistical information

## **GridKa-CA architecture**



Web-frontend

### Request of

- user, host- and service certificates
- renewal
- revocation

GridKa-CA

#### Administration of

- user data
- certificates
- RAs
- RA-Webadmins
- CA-Admins

## User webinterface



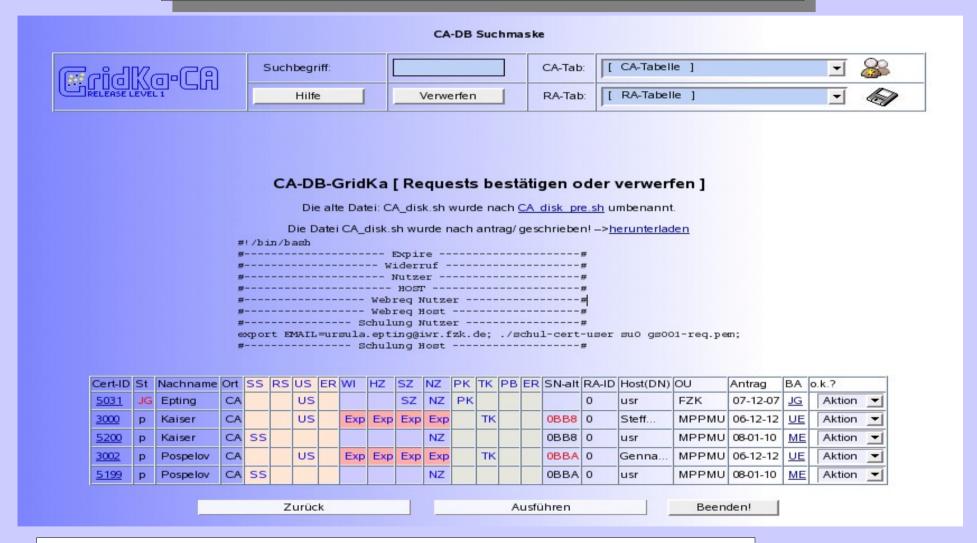
- user can request a certificate (first one or renewal or revocation for user or host)
- for renewal, data are read from client certificate, phone number has to be added

## **RA** webinterface



- ra-admin can overview the status of all his requests
- ra-admin can check the requests per mouse klick directly in the browser
- after approval by ra-admin the requests are downloaded by CA-admin
- certificates are uploaded after issuance
- the user is notified automatically by email

# **CA admininterface (1)**



- ca-admin proves the requests
- downloads CA\_disk for issuing certificates on the CA-machine
- uploads certificates to the webinterface

# **CA admininterface (2)**

search functions (user/cert/hostname /ou/DN exists?

#### CA-DB Suchmaske



- overtake data for new reqs
- insert/update of user data
- revocation of certs
- history for each user
- Werkzeuge
  Zertifikate prüfen
  Statistische Auswertung [einjährig].
  Statistische Auswertung [vierjährig].
  Konsistenz der GridKa-CA Datenbank prüfen.
  Erstellungsdatum einlesen.
- administration of CA-admins/RAs
- administration of webrequests
- Logging of all working steps (who did what)

# **CA admininterface (3)**



#### CA-DB Historie [Benutzer:Ursula Epting]

me:	Epting	Organisation:	FZK									
rname:	Ursula	Projektname:										
Mail:	epting@iwr.fzk.de	RA-Name:										
lefon:		Ablaufdatum:	2007-09-14 08:29:22									
l:	/O=GermanGrid/OU=FZK/	CN=Ursula Epting										
-:	/home/gridka-ca/ca/RA/Zettel/epting-ursula.odt											

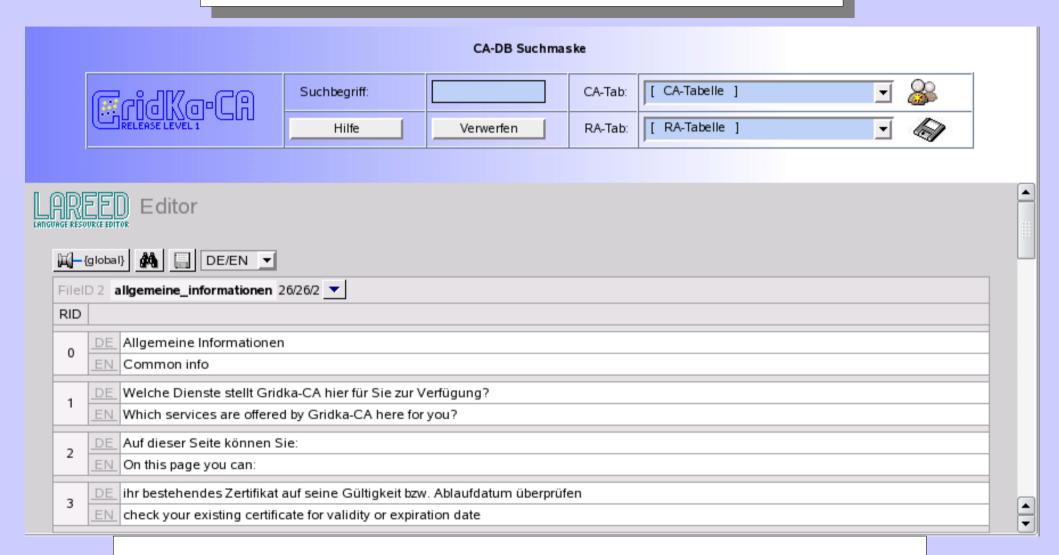
#### Daten für neuen Regest übernehmen!

Nummer	9	St	Ser.Nr.	RS	SS	US	ER	WI	NZ	HZ	sz	PK	TK	РВ	ER	RevGrund	RaName	Ausweis	cn	Antrag	ВА
1 - 455		Е	01C7					WI											/O=GermanGrid/OU=FZK/CN=Ursula Epting	00-00-00	JG
2-		Е	0450					WI											/C=DE/O=GermanGrid/OU=FZK/CN=iwr-ss1.fzk.de	00-00-00	JG
3 -		Е	047C					WI											/O=GermanGrid/OU=FZK/CN=Ursula Epting	00-00-00	JG
4 -		٧	0911					WI											/O=GermanGrid/OU=FZK/CN=Ursula Epting	00-00-00	ME
5 - 24 2		٧	0984			US					SZ			РВ					/O=GermanGrid/OU=FZK/CN=host/iwrgks-10-1.fzk.de	06-09-01	ME

### User or host history, all information in one view:

- lists all certificates of one user (or one host)
- · form of the request, kind of certificate, form of identity vetting
- take over of user data for further requests
- one klick to detailed information

# Language support



- LAREED language resource editor (by Olaf Rasch)
- All help text is stored modular in a database an can easily be translated
- Planned: Integration of webinterface and administration site

Questions?

Contact the developer juergen.glowka@extern.fzk.de or it@glowka.de

Thank you for your attention!