

Preparations for grid usage on bwGRiD resources

Requesting grid user certificate,
VO member registration (for users)

Approve VO members
(for VO representatives)

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Projektförderung durch:



Bundesministerium
für Bildung
und Forschung



Ministerium für Wissenschaft,
Forschung und Kunst
Baden-Württemberg

- Preferences Overview
- How to get the grid user certificate
- Requesting VO membership
- Certificate Handling (import/export, ..)
- Membership approval (for VO representatives)

To use the bwGRID resources you need:

- A Grid User certificate according to EUGridPMA
This requirement is common to all D-Grid resources and allows a certain level of proven identity
- To be a member of any D-Grid VO i.e. „bwGRID“
- Import your certificate in your Grid Middleware (Unicore, Globus, ..)
- Add the site's access point to your middleware configuration

REQUESTING CERTIFICATES

- Two CAs (certification authority) issue Grid certificates in Germany
DFN-Grid-CA operated by DFN (german research network, www.dfn.de)
GridKa-CA operated by FZK (research center Karlsruhe, www.fzk.de)
- Certificate requests accepted by many registration authorities (RA) throughout Germany
- CAs give a list of all their RAs and responsible persons.
- Each CA has a Certificate Policy (CP) each user has to accept and a Certificate Practice Statement (CPS) on their operation

Request certificate

| | DFN-Grid-CA | GridKA-CA |
|--------------------|---|---|
| Website | http://www.pki.dfn.de/ | http://grid.fzk.de/ca |
| List of RAs | https://info.pca.dfn.de/grid-ras.html | http://grid.fzk.de/ca/RA.html |
| Policy Overview | http://www.pki.dfn.de/index.php?id=policies | http://grid.fzk.de/ca Section CP/CPS |
| Certificate Policy | http://www.pki.dfn.de/fileadmin/PKI/DFN-PKI_grid-cp_v14.pdf | http://grid.fzk.de/ca/gridka-cps.pdf |

Request certificate

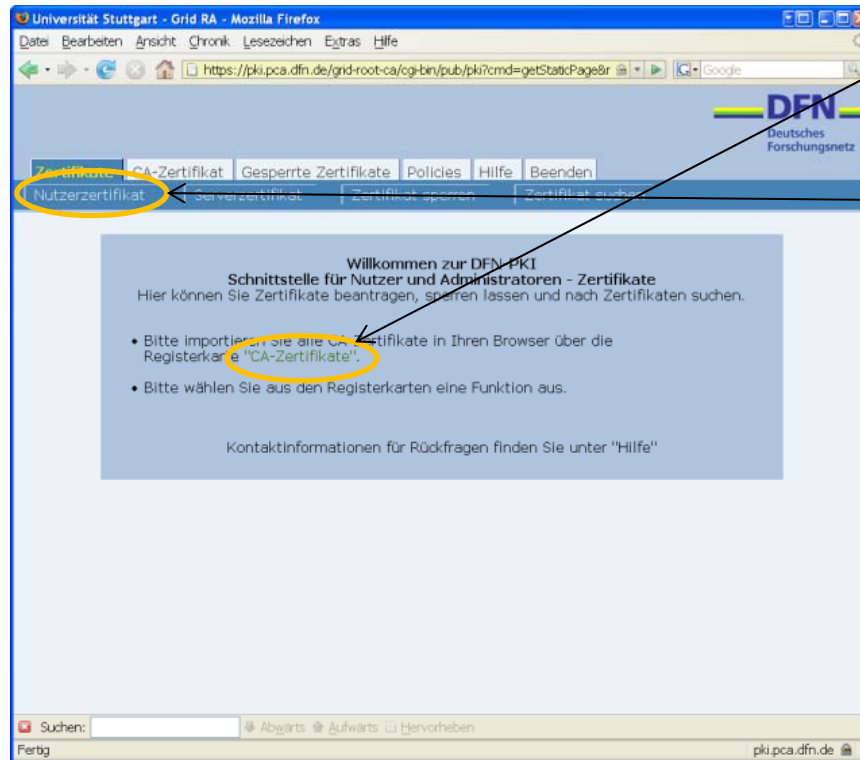


| Entity name | Organisational Unit | ID | RA responsible |
|--|---|-----|---|
| University Freiburg GridKA , DFN-Grid | /OU=UniFreiburg (FZK) or /OU=Universitaet Freiburg (DFN) | 133 | Jan Erik Sundermann Bernhard Bußhardt |
| University Heidelberg | /OU=Universitaet Heidelberg | 143 | Matthias Melcher |
| University Karlsruhe | /OU=KIT (former OU=FZK or /OU=Uni Karlsruhe | | Guenter Quast Tobias Dussa |
| University Konstanz | /OU=Universitaet Konstanz | 182 | Sebastian Graf |
| University Mannheim | /OU=Universitaet Mannheim | 166 | Edith Petermann, Marcus Bickel |
| University Stuttgart | /OU=Universitaet Stuttgart | 123 | Thomas Beisel, Martin Hecht, Jochen Buchholz |
| University Tübingen | /OU=Universitaet Tuebingen | 110 | Jörg Heitzenröther |
| University Ulm | /OU=Universitaet Ulm | 172 | Christian Mosch |
| University Hohenheim | /OU=Universitaet Hohenheim | 181 | Dr. Steffen Bücheler |
| University of Applied Science Esslingen | /OU=Hochschule Esslingen | 173 | Martin Schmid |

Most entities in bwGRiD use certificates issued by the DFN-PKI with the DN prefix „/C=DE/O=GridGermany“.
Karlsruhe and Freiburg normally uses certificates issued by GermanGrid-CA with the DN prefix
„/O=GermanGrid“, IDs are used on next page



Request Certificate



- You need to install the Grid Root CA certificate as instructed.
- After that you can request your own certificate by selecting „Nutzerzertifikat“ from the second menu line.
- On the next page you have to fill your certificate details (email, name, department).
- Remark: You have to use the same browser for this request and at the point where you receive the certificate in the end because otherwise the request and issued the certificate can't be merged.
- Windows 7 + IE causes problems joining VO

https://pki.pca.dfn.de/grid-root-ca/cgi-bin/pub/pki?cmd=getStaticPage&name=index&RA_ID=123
Exemplary request for users from HLRS, the screenshots may differ for other entities slightly.
For other RAs simply change the number in the link according to the table on the previous page

Request Certificate

DFN
Deutsches
Forschungsnetz

Nutzer CA-Informationen

Beantragen eines Zertifikats | Zertifikat sperren | Suche nach Zertifikaten

Beantragen eines Nutzer-Zertifikats

Bitte geben Sie Ihre Daten ein. Felder, die mit einem Stern (*) markiert sind, müssen ausgefüllt werden.

Zertifikatsdaten

E-Mail * buchholz@hirs.de

Name * Jochen Buchholz

Abteilung HLRS

Bitte geben Sie hier zusätzliche Kontaktdaten ein:

E-Mail

Abteilung

Telefon

PIN (Mindestens 8 beliebige Zeichen) *

Nochmalige Eingabe der PIN zur Bestätigung *

Die PIN wird von Ihnen benötigt, um sich gegenüber dem Zertifizierungssystem zu autorisieren, z.B. wenn Sie Ihr Zertifikat sperren wollen. Bitte notieren Sie sich die PIN.

☒ Ich stimme der Zertifizierungsrichtlinie zu (Zertifizierungsrichtlinie) *

☒ Ich stimme der Veröffentlichung des Zertifikats zu. *

Sie müssen der Veröffentlichung zustimmen.

Weiter

Fertig pki.pca.dfn.de

For the department specification as part of the DN there might be some restrictions for your entity. If there are none you might enter the name of your institute or faculty be aware that this would be part of your DN (distinguished name) and is therefore not changeable. The User data section is used for contacting you if there are problems with the certificate generation etc.

DFN
Deutsches
Forschungsnetz

Nutzer CA-Informationen

Beantragen eines Zertifikats | Zertifikat sperren | Suche nach Zertifikaten

Beantragen eines Nutzer-Zertifikats - Bestätigen

Die folgenden Daten wurden eingetragen:

Zertifikatsdaten

E-Mail buchholz@hirs.de

Name Jochen Buchholz

Abteilung HLRS

Nutzerangaben

E-Mail

Abteilung

Telefon

Veröffentlichen Ja

Zertifikatstyp User

Registrierungsstelle Default RA

Schlüssellänge 2048 (hohe Stufe)

Ändern Bestätigen

Fertig pki.pca.dfn.de

The key length selection might be available for some entities. You need to use the browser where you want to install the certificate since the keypairs is generated in this registration process.

Request Certificate



DFN-PKI



Zertifikatantrag mit Identifizierung

Antragsnummer 1377824
Eindeutiger Name emailAddress=buchholz@hlrs.de, CN=Jochen Buchholz, OU=HLRS, OU=Universitaet Stuttgart, O=GridGermany, C=DE
Public Key Fingerprint BE:A7:46:5C:2E:BD:C1:30:4F:3F:28:5C:00:22:26:D5:27:C5:9A:6B
Schlüssellänge 2048
Veröffentlichen Ja

Angaben zur Person

☐ Frau ☐ Herr

Vorname Nachname Jochen Buchholz

E-Mail buchholz@hlrs.de

Telefonnummer

Ausweis (Art u. vollständige Nummer)

Abteilung / Institut HLRS

Straße u. Hausnummer

Postleitzahl u. Ort

- Ich versichere, dass sämtliche Angaben im Antrag vollständig sind und der Wahrheit entsprechen.
- Ich kenne die gültigen Zertifizierungsrichtlinien und die Erklärung zum Zertifizierungsbetrieb und stimme ihnen zu.
- Ich stimme der Verarbeitung und Speicherung der bei der Zertifizierung anfallenden Daten zu. Die Daten werden gemäß den geltenden Datenschutzbestimmungen vertraulich behandelt.

(Ort, Datum)

(Unterschrift - wie im Ausweis)

This page varies for each entity. But still has the same intention. It collect the necessary information to identify you.



Request Certificate



- Print out the upper form and sign it.
- Visit your local RA contact person (it is essential to make an appointment). Carry with you the printed form and your ID card or passport.
- The RA responsible checks your identity, fills out the identity information on the form if not yet done.
- He creates the certificate (not necessarily instantly)
- You are being informed by email when your certificate is ready. It will be also attached to that email.
- Visiting the link in the email, the certificate will automatically be installed in the browser (if you use the same browser as for requesting).

Remarks: Requesting the certificate with IE on Windows 7 may cause misleading error messages if you import the certificate more than once or interrupt the import and try again. In the second case your certificate seems to be useless.



REQUEST VO MEMBERSHIP

Request VO mebership

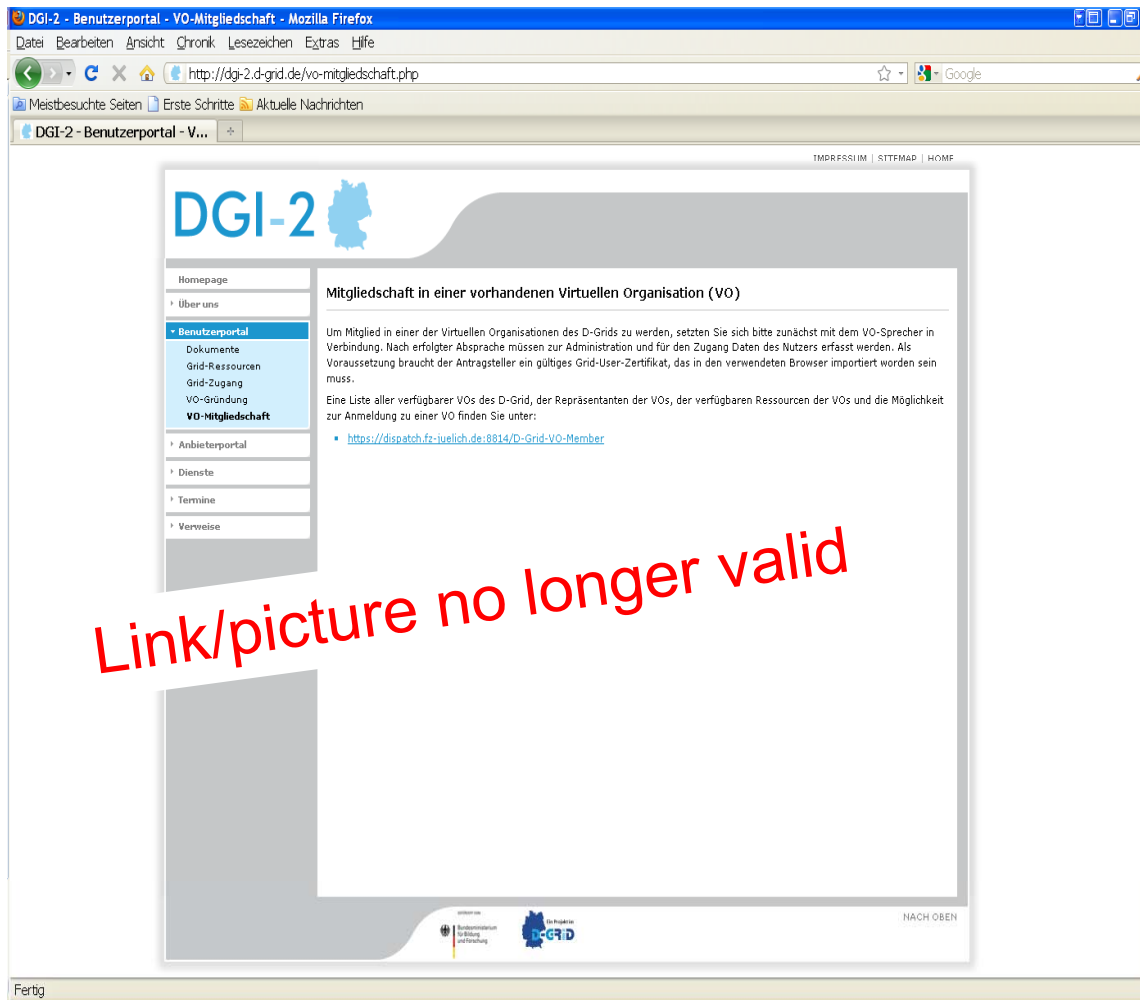
The process joining a VO includes several steps

- Visit the D-Grid Site (<http://www.D-Grid.de>)
 - follow „DGI 2“
 - select D

*Link no longer valid since D-Grid except
bwGRiD is out of production -> following slides*

- Select your VO (in most cases bwGRiD)
- Phase I: Fill out your personal information
- Validate email address
- Phase II: Select your subVO / location and agree to the policy.
- Being approved by the VO Admin
- Receive approval

Request VO mebership



Following the link on this page your certificate will be used to identify you.

If you cannot reach this page it might be a firewall issue please try the link in the following pages to directly access bwgrid VO.

For IE on Windows 7: It seems that with correctly installed certificate you can't access this page even if there is no firewall problem. If the link to the bwgrid VO also does not work you can try using another browser and copy the certificate there.

<https://dispatch.fz-juelich.de:8814/D-Grid-VO-Member>

Request VO mebership

dgrid_virtorgall_list - Mozilla Firefox

https://dispatch.fz-juelich.de:8814/dgrid_virtorgall_list/back=%2fDGVGM

Mitgliedschaft in einer VO

D-Grid Virt...

Each VO is :
To join a VO

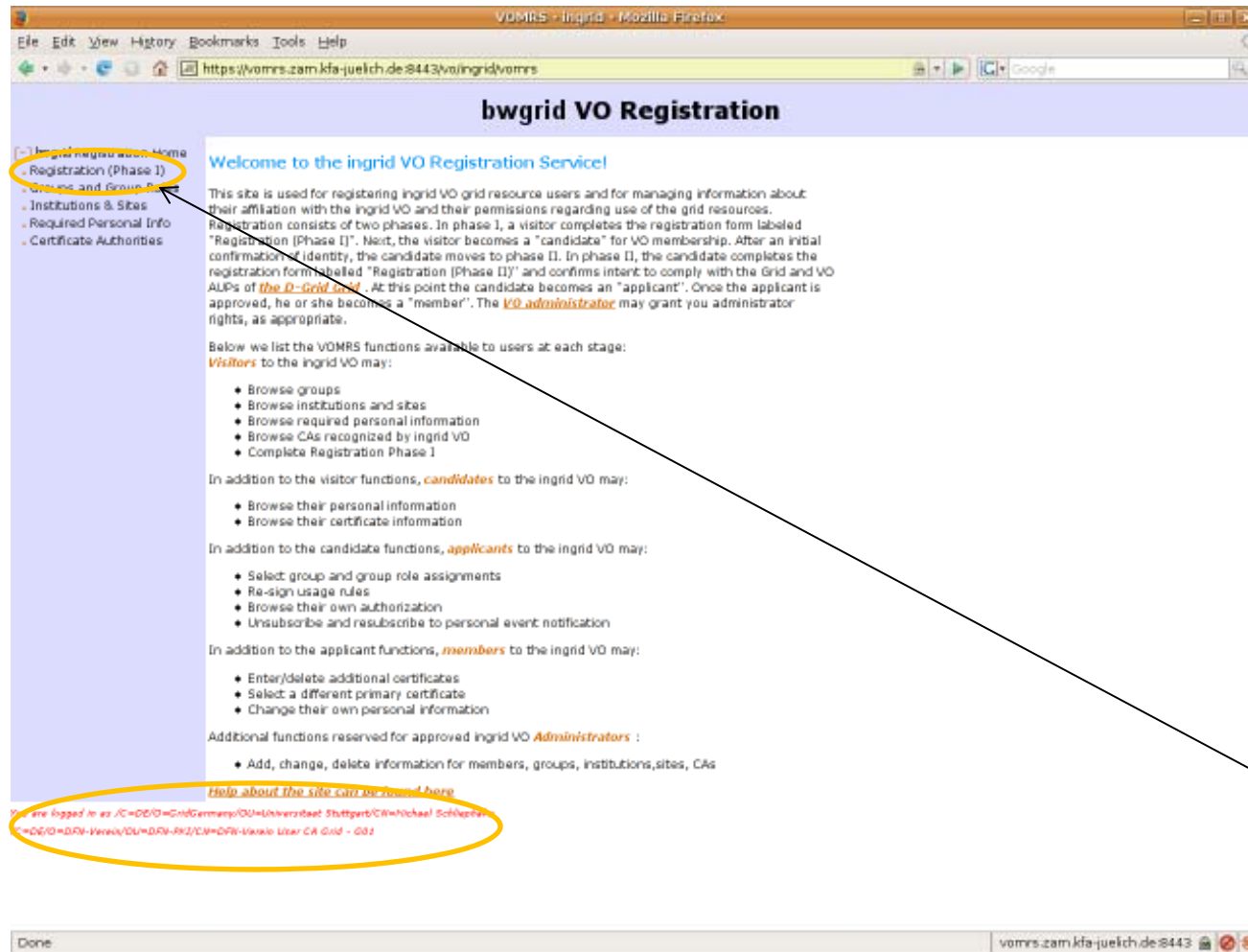
Picture no longer valid, since there is no more any selection

| VO | Registration | joined Resources | VO-Representative |
|----------------------------|--------------|------------------|---|
| astrogrid | ad | ⇒ | Harry Enke |
| bwgrid | bw | ⇒ | Jochen Buchholz (Uni) Florian Niebling (Uni) |
| c3grid | c3 | ⇒ | Bernadette Fritsch Benny Bräuer |
| dgttest | dt | ⇒ | Ariel Garcia Olaf Schneider |
| ediscation | ed | ⇒ | Thomas Frieseler Christa Dohmen |
| fingrid | fi | ⇒ | Jens Vykoukal |
| gdiend | gd | ⇒ | Christian Grimm Ralf Groeper Christopher Kunz |
| hepssg | hp | ⇒ | Peter Malsacher |
| ingrid | in | ⇒ | Sabine Röll Florian Niebling |

Fertig dispatch.fz-juelich.de:8814

Here you can see all VOs available in D-Grid and up to two representatives for each VO. You select your representative later.

Request VO mebership



The bottom line shows your identity taken from your certificate.

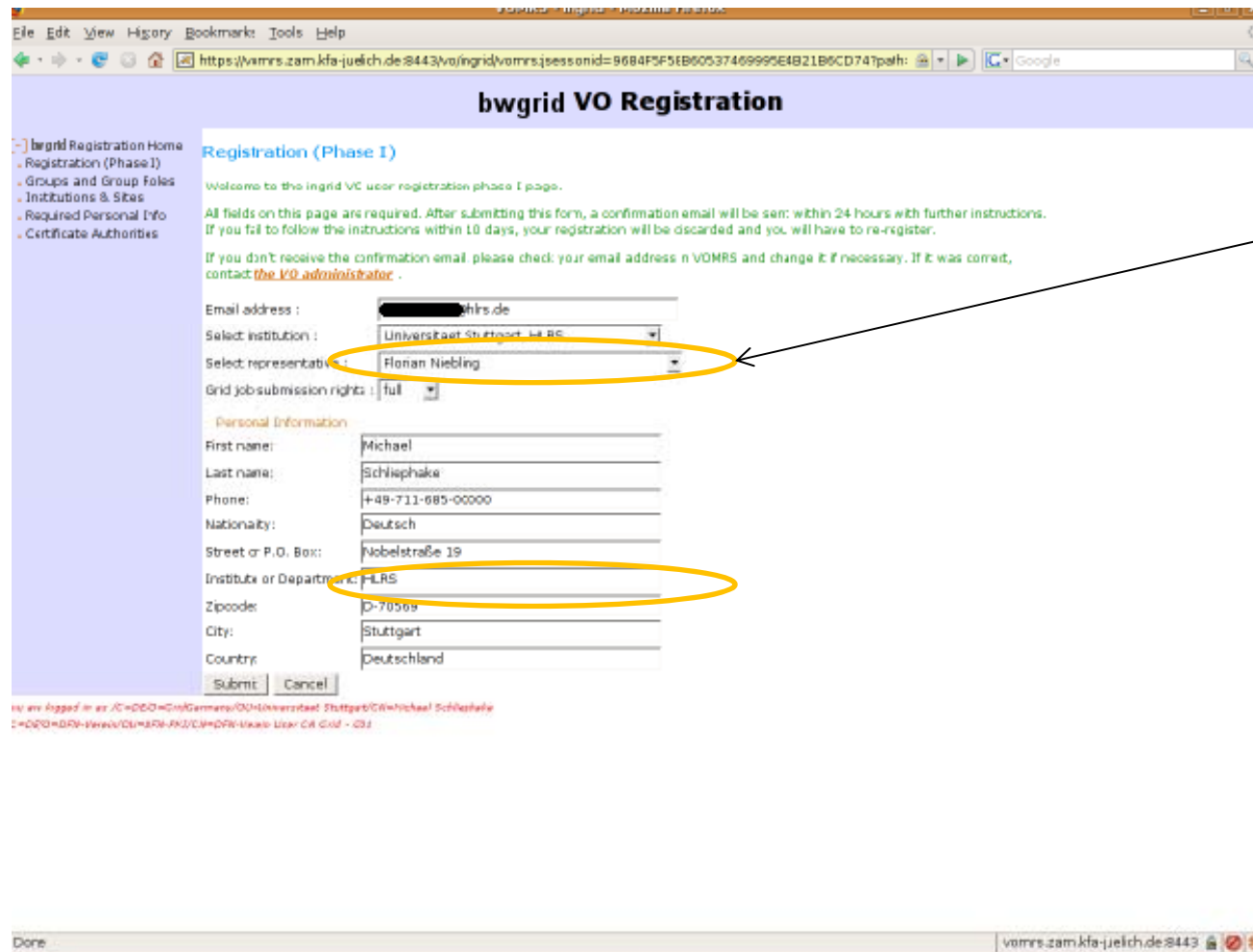
Proceed with Phase I

<https://vomrs.zam.kfa-juelich.de:8443/vo/bwgrid/vomrs>

Take this link!



Request VO mebership



Select your representative.

Please fill in your personal contact details. This simplifies the registration process if you are not personally known to the VO representatives. Otherwise we need more time to check if you are really authorized to be member of the VO.

Request VO mebership



The image shows two screenshots. The top screenshot is a web browser window displaying the 'bwgrid VO Registration' page. The page title is 'bwgrid VO Registration' and the sub-header is 'Registration (Phase I)'. A green banner states: 'You have successfully submitted phase I of ingrid VO registration!'. Below this, it says: 'You now have candidate status in the ingrid VO. You will receive an email providing further instructions about second phase of registration.' and 'Click on the Registration (Phase I) link to update the left hand menu.' The left sidebar shows a navigation menu with 'Ingrid Registration Home' and 'Registration (Phase I)' selected. The bottom of the browser window shows a login status: 'You are logged in as /C=D6/O=GrtGermany/OU=Universitat Stuttgart/CN=Michael Schlögl'. The bottom screenshot is an email window titled 'Alpine' showing an email from 'vomrs-admin@fz-juelich.de' to '[redacted]@hlrs.de'. The subject is 'AUTOMATIC NOTIFICATION FROM VOMRS ingrid: You have to confirme-mail address and finish registration'. The email body says: 'Dear VO Candidate/Applicant, Please confirm your email address [redacted]@hlrs.de within 10 days by clicking on this link [vomrs.zam.kfa-juelich.de:8443]. In addition to confirming your email, this brings you to the registration screen for phase II where you can complete your registration. After 10 days your registration will be discarded and you will have to re-register. Please contact VO administrator if you have any questions. VOMRS ingrid Service [vomrs.zam.kfa-juelich.de:8443]'. The email footer says 'Forschungszentrum Jülich GmbH 52425 Jülich'.

After you successfully sent the form an email will be sent to you to validate the email address. Following the link in this email you will be forwarded to Phase II.



Request VO mebership



VOMRS - Ingrid - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://vomrs.zam.kfa-juelich.de:8443/voingrid/vomrs?path=/RootNode/MemberAction/MemberPhaseIRegistrati...

VOMRS - Ingrid

bwgrid VO Registration

Registration (Phase II)

Welcome to the ingrid VO user registration phase II page!

You are now a candidate to the ingrid VO. To proceed, you required to read the Grid and VO AUPs of [the D-Grid Grid](#) and fill out the additional fields, if any. At this time you can also select groups and group roles you would like to be assigned. Submission of this phase II registration form implies your agreement to abide by these rules, and for legal purposes is regarded as your signature to this agreement. In addition to the visitor functions, as a candidate to the ingrid VO, you may:

- Change your groups and group roles selection
- Browse your own personal information
- Browse your certificate information

Upon submission of this form you become an applicant to the ingrid VO. The representative you selected in phase I will be required to verify both the correctness of the information you have provided and your ingrid VO affiliation prior to approving you for membership. You will receive an email notification indicating approval or denial of membership.

Groups and Group Roles:

| Group | Group Description | Group role | Group Role Description | Status | Select |
|--------------------|---------------------------|------------|------------------------|----------|-------------------------------------|
| bwgrid | The root group of this VO | | | Approved | <input checked="" type="checkbox"/> |
| bwgridtraessingen | | | | | <input type="checkbox"/> |
| bwgridunihelburg | | | | | <input type="checkbox"/> |
| bwgriduniheldberg | | | | | <input type="checkbox"/> |
| bwgridunihohenheim | | | | | <input type="checkbox"/> |
| bwgridunikarlsruhe | | | | | <input type="checkbox"/> |
| bwgridunikonstanz | | | | | <input type="checkbox"/> |
| bwgridunimannheim | | | | | <input type="checkbox"/> |
| bwgridunistuttgart | | | | | <input checked="" type="checkbox"/> |
| bwgriduniekubingen | | | | | <input type="checkbox"/> |
| bwgridunium | | | | | <input type="checkbox"/> |

Please read [the Grid and VO AUPs](#) before you sign it.

I have read and agree to the Grid and VO AUPs.

[Click to register](#)

You are logged in as JC=D6/D=GridGermany/OU=Universitaet Stuttgart/CN=Michael Schlegel
JC=D6/D=DFW-Vomrs/OU=DFW-VRI/CN=DFW-Vomrs User CA Grid - G3

In Phase II you can select the subVOs you want to be part of. This will raise an email to the representative to approve your changes.

You have to accept the Acceptable Usage Policy (AUP) for grid usage. Doing this will sent your request to the VO admins.



Request VO mebership



VOMRS - Ingrid - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://vomrs.zam.kfa-juelich.de:8443/voingrid/vomrs.jsessionid=DA5AB412B9353272637C3B767A86E8C87pat...

VOMRS - Ingrid

bwgrid VO Registration

Registration (Phase II)

You have successfully submitted phase II of ingrid VO registration!

You will receive an email notice from the VOMRS Ingrid Service indicating that you've been approved (or denied) as a VO member. This could take up to a few days; it depends on how soon your representative completes this task. You now have applicant status in the ingrid VO, and as such can access more screens. Click on the ingrid VO Registration Home link in the left hand menu to update the menu.

Applicant to ingrid VO may:

- Change your groups and group roles selection
- Browse groups
- Browse institutions and sites
- Browse required personal information
- Browse CAs recognized by ingrid VO
- Browse your own personal information
- Re-sign usage rules
- Browse your own authorization status
- Browse required personal information
- Browse CAs recognized by ingrid VO
- Unsubscribe and resubscribe to personal event notification

You are logged in as /C=DE/O=GNDGermany/OU=Universitaet Stuttgart/CN=Michael Schoepfle

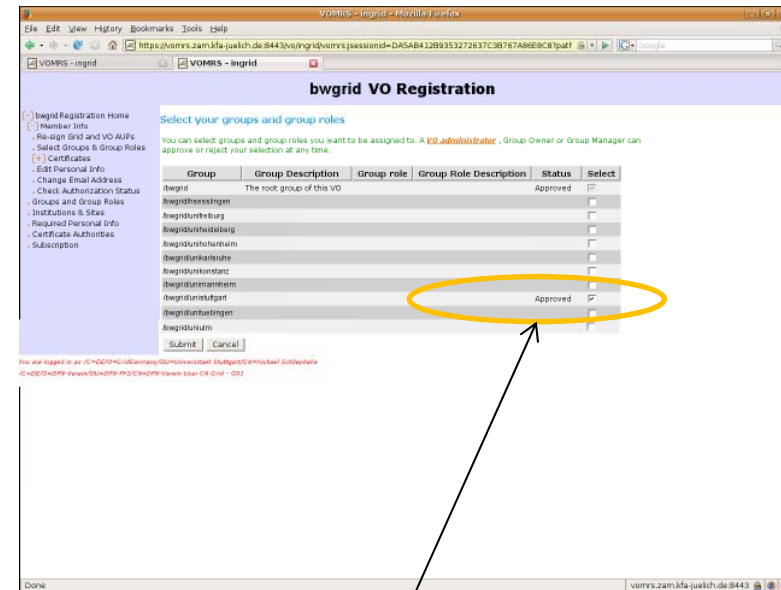
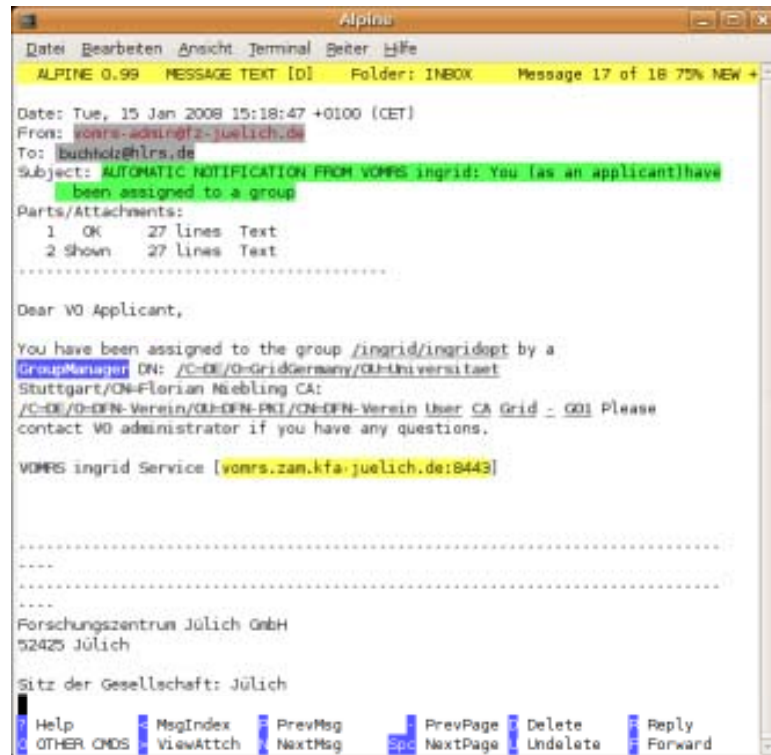
/C=DE/O=DPM-Verein/OU=DPM-FKZ/CN=DPM-Verein User CA Grid - GZ

Done

vomrs.zam.kfa-juelich.de:8443



Request VO mebership



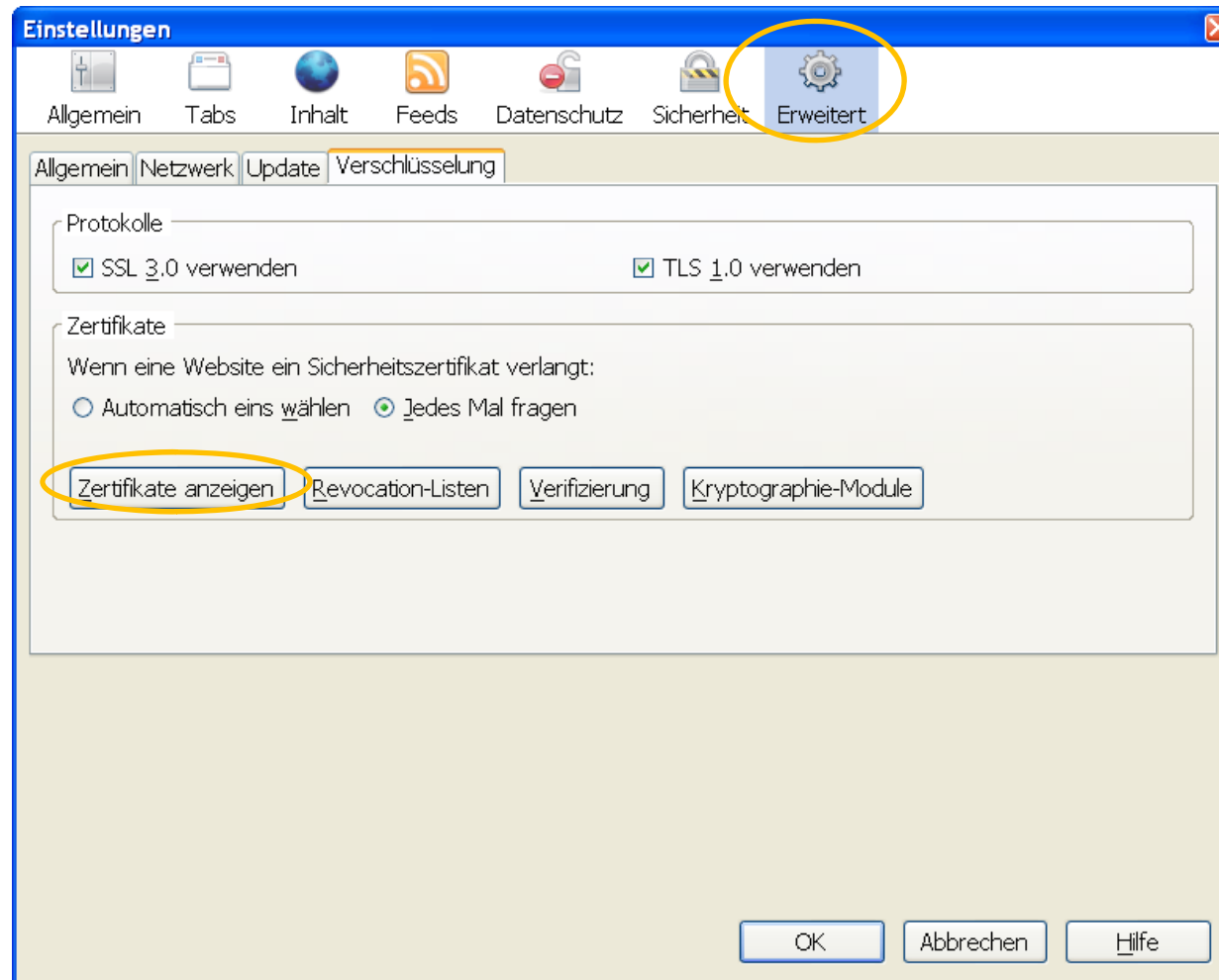
When the representative has accepted or denied your request joining subVOs you will be informed by email and you can see the new status on the website („Approved“).



CERTIFICATE HANDLING

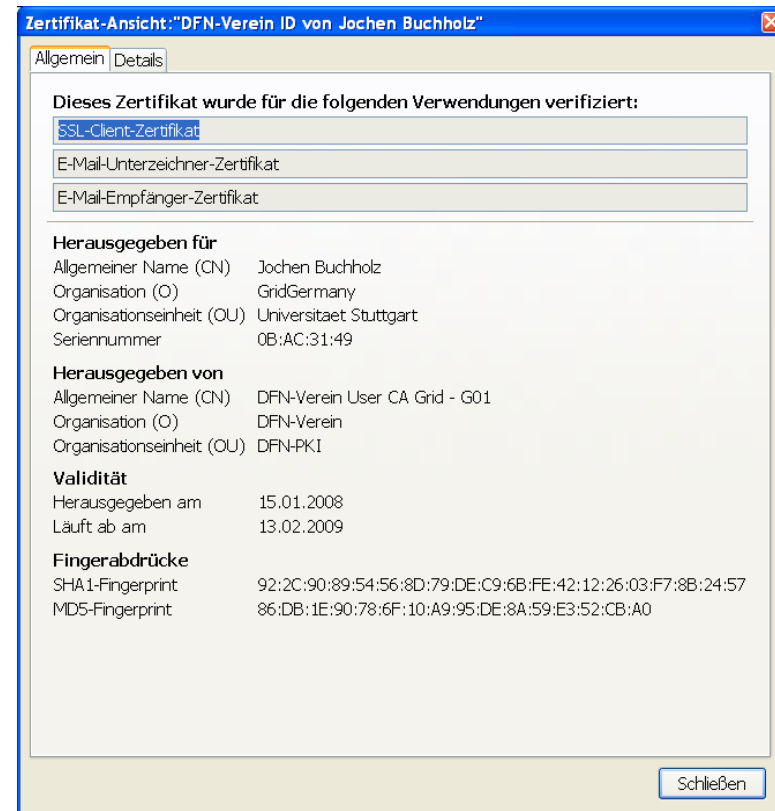
- Export certificate from browser
- Import certificate in browser
- Import certificate in Unicore
- Certificate transformation
- Import certificate in Globus

From the Menu select Tools -> Settings (Extras -> Einstellungen)



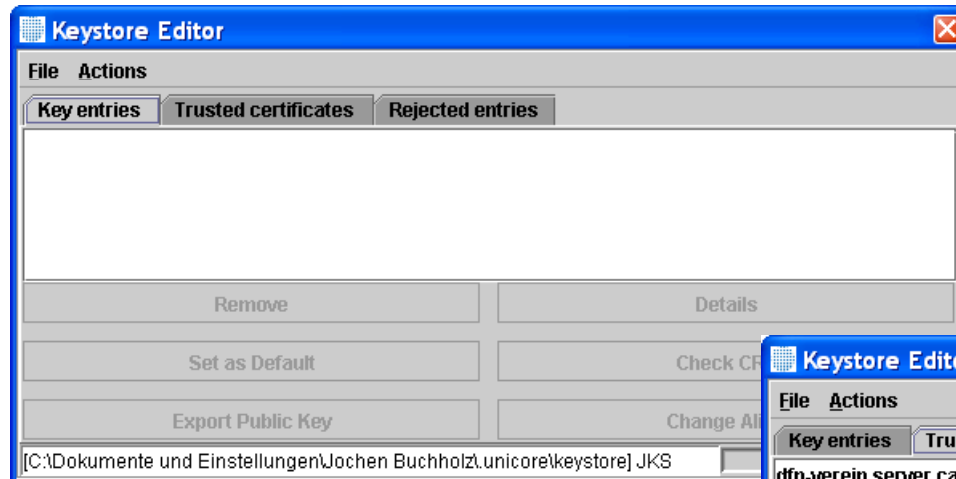


After selecting one of the shown entries you can see the certificate details (click on details) or export the selected certificate including the private key (click on backup). The certificate will be stored in PKCS12 format. Additionally you can import further certificates.

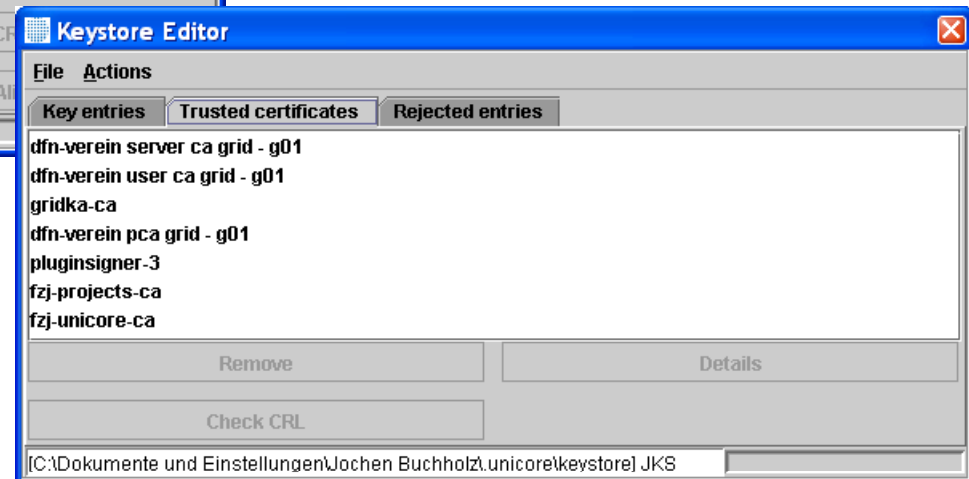


Unicore: Add your identity

From the menu select Settings -> Keystore Editor.



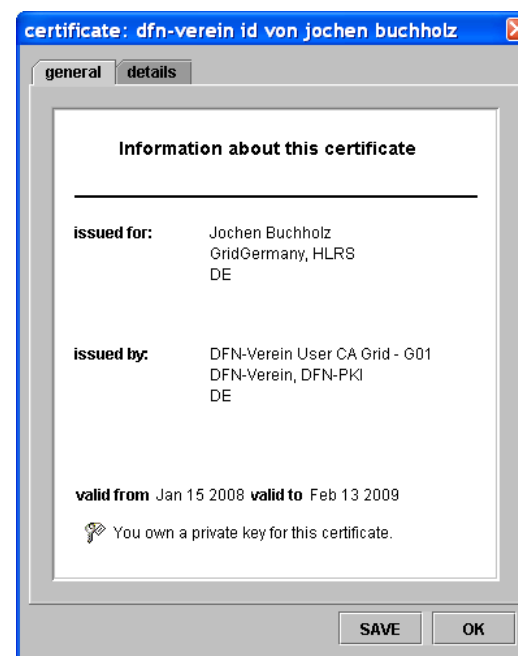
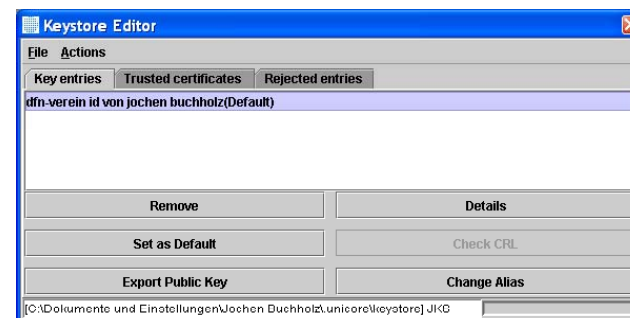
You can see there is no key available but initially some certificates are already imported, like DFN, GridKA or the Unicore developer's CA.



Unicore: Add your certificate/key

By selecting Actions -> Import certificate you can add additional certificates i.e. additional resource providers.

Your personal certificate together with your private key in PKCS#12 format is handled as certificate store. Therefore you have to select Actions -> Import keystore and select your filename.p12. Only in case of an error you receive any message. Otherwise the identity is added successfully.



Transform certificate for Globus



Extract key and certificate out of #pkcs12 file (exported from your browser)
(OpenSSL needed)

```
user@host:~> openssl pkcs12 -in GermanGridCert.pl2 -out userkey.pem -nocerts
Enter Import Password: *****
MAC verified OK
Enter PEM pass phrase: *****
Verifying - Enter PEM pass phrase: *****
user@host:~>
```

```
user@host:~> openssl pkcs12 -in GermanGridCert.pl2 -out usercert.pem -clcerts -nokeys
Enter Import Password: *****
MAC verified OK
user@host:~>
```

Openssl is also available for Windows
i.e. <http://www.slproweb.com/products/Win32OpenSSL.html>



Move the resulting files to your ~/.globus directory and set access privileges

```
user@host:~> mkdir -p ~/.globus
user@host:~> mv usercert.pem ~/.globus/
user@host:~> mv userkey.pem ~/.globus/
user@host:~> chmod 700 ~/.globus
user@host:~> chmod 600 ~/.globus/*
```

Integrate CA certificates

(you should integrate the Chain of Trust of the EUGridPMA to work in D-Grid)

Therefore download the tarball with all necessary CA certificates

```
user@host:~> mkdir -p ~/.globus/certificates
user@host:~> cd ~/.globus/certificates
user@host:~/.globus/certificates> wget
    http://dist.eugridpma.info/distribution/igtf/current/accredited/igtf-
    preinstalled-bundle-classic.tar.gz
...
user@host:~/.globus/certificates> tar xvf certificates.tar
...
```

For Windows users the corresponding directory is

„C:\Documents and Settings\{username}\.globus\“



- <https://wickie.hlrs.de/dgrid/>
- dgrid-support@dgrid.hlrs.de
- [Subject „Subscribe“ to dgridsysnews-request@listserv.uni-stuttgart.de](mailto:Subject%20Subscribe%20to%20dgridsysnews-request@listserv.uni-stuttgart.de)

Only for VO Representatives

APPROVE VO MEMBERSHIP

Approve VO membership



AUTOMATIC NOTIFICATION FROM VOMRS ingrid: Michael Schliephake - NewMember has registered - representative approval is required

Von: vomrs-admin@fz-juelich.de (nachgesendet von <hpcflon@po2.uni-stuttgart.de>)
An: niebling@hirs.de
Datum: Heute 15:12:47

Dear Administrator,

We have received a request from a applicant ("<mailto:schliephake@hirs.de>")

DN: /C=DE/O=GridGermany/OU=Universitaet Stuttgart/CN=Michael Schliephake

CA: /C=DE/O=DFN-Verein/OU=DFN-PKI/CN=DFN-Verein User CA Grid - G01

to join VO.

You can check member's personal information

("https://vomrs.zam.kfa-juelich.de:8443/vo/ingrid/vomrs?path=/RootNode/MemberAction&action=execute&do=select&SearchCriteria_DF") .

You can approve or deny

("https://vomrs.zam.kfa-juelich.de:8443/vo/ingrid/vomrs?path=/RootNode/MemberAction/SetRgstrStatus&action=execute&do=select&Se") member's request.

VOMRS ingrid Service ("https://vomrs.zam.kfa-juelich.de:8443/vo/ingrid/vomrs?path=/RootNode")

Forschungszentrum Jülich GmbH
52425 Jülich

The representative will be informed when any new user requests membership or want to join a subVO (in bwGRiD the different universities.)

The following screenshots were made when the VO bwGRiD was not yet created. Instead the VO InGRiD was used.



Approve VO membership



AUTOMATIC NOTIFICATION FROM VOMRS ingrid: Michael Schliephake -Applicant has requested to be assigned to a group

Von: vomrs-admin@fz-juelich.de (nachgesendet von <hpcflon@po2.uni-stuttgart.de>)
An: niebling@hlrs.de
Datum: Heute 15:12:47

Dear Administrator,

The VO applicant ("<mailto:schliephake@hlrs.de>")

DN: /C=DE/O=GridGermany/OU=Universitaet Stuttgart/CN=Michael Schliephake

CA: /C=DE/O=DFN-Verein/OU=DFN-PKI/CN=DFN-Verein User CA Grid - G01

has requested to be assigned to the group /ingrid/ingridopt.

You can approve or deny

("https://vomrs.zam.kfa-juelich.de:8443/vo/ingrid/vomrs?path=/RootNode/MemberAction/ManageGroupAssignment&action=execute&do=s") member's request.

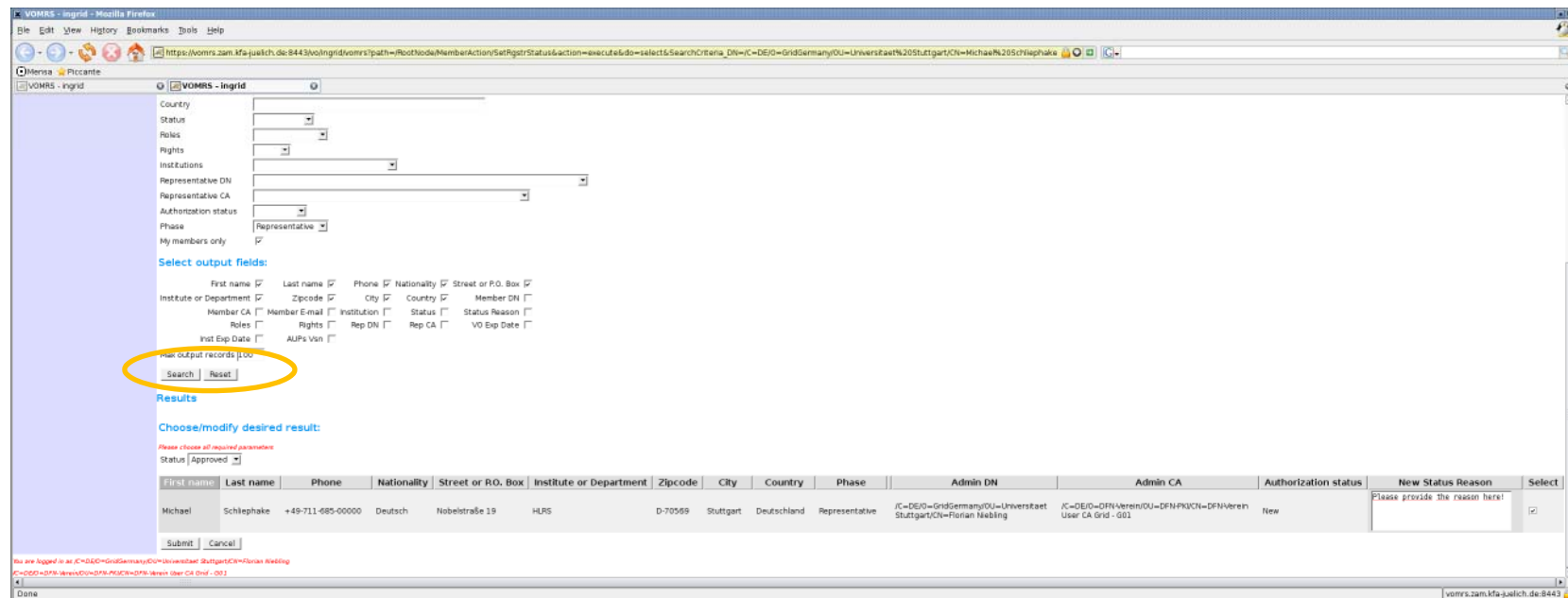
VOMRS ingrid Service ("https://vomrs.zam.kfa-juelich.de:8443/vo/ingrid/vomrs?path=/RootNode")

Forschungszentrum Juelich GmbH
52425 Juelich

Following the links
in the email you
will directly be
forwarded to the
search form



Approve VO membership

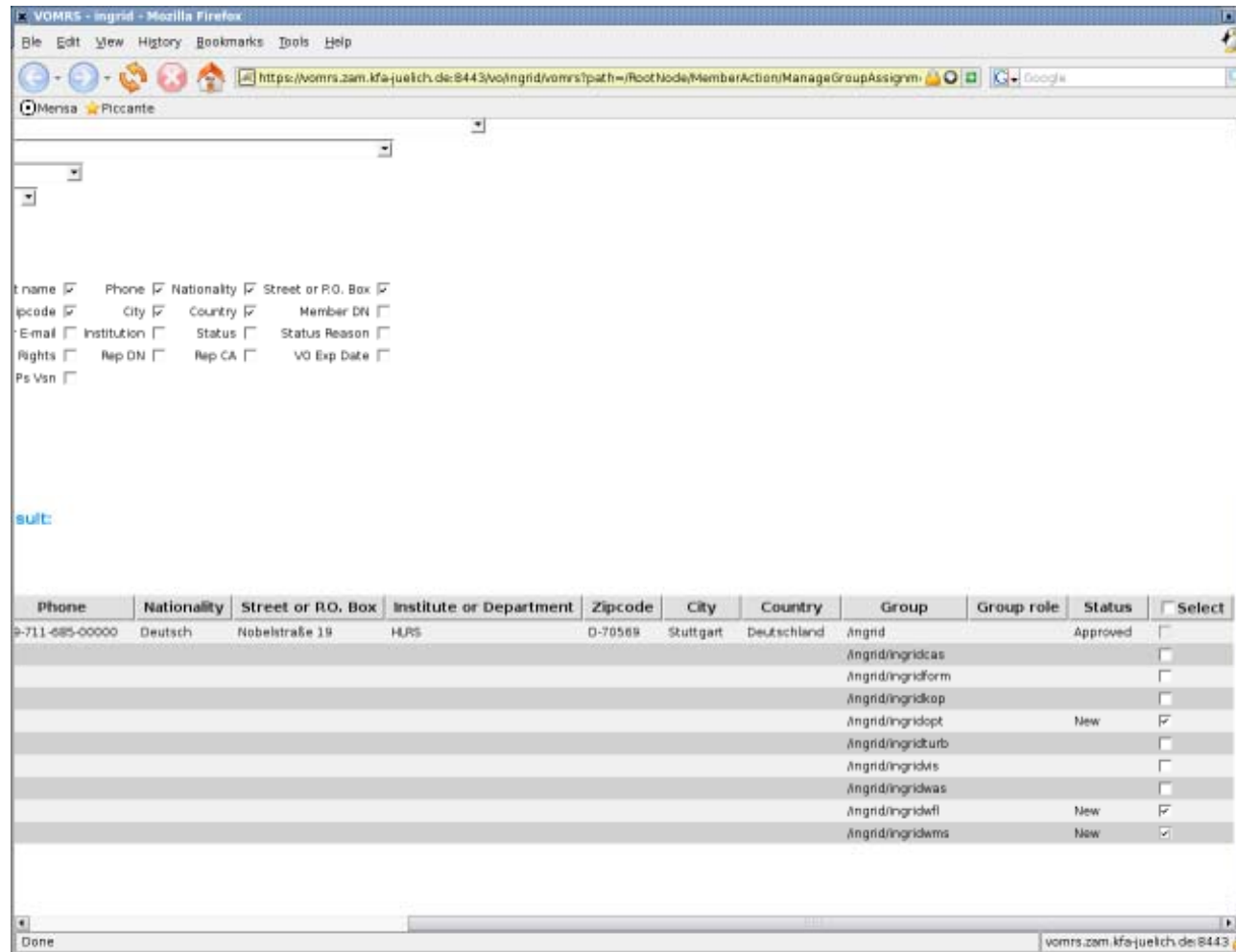


The screenshot shows the VOMS - Ingrid web interface. The search section is highlighted with a red circle. Below the search section, the results are displayed in a table.

| First name | Last name | Phone | Nationality | Street or P.O. Box | Institute or Department | Zipcode | City | Country | Phase | Admin DN | Admin CA | Authorization status | New Status Reason | Select |
|------------|------------|-------------------|-------------|--------------------|-------------------------|---------|-----------|-------------|----------------|---|---|----------------------|---------------------------------|--------------------------|
| Michael | Schlephake | +49-711-695-00000 | Deutsch | Nobelstraße 19 | HLRS | D-70569 | Stuttgart | Deutschland | Representative | /C=DE/O=GridGermany/OU=Universitaet Stuttgart/CN=Roman Naebling | /C=DE/O=DFN-Veren/OU=DFN-PKIX/CN=DFN-Veren User CA Grid - G01 | New | Please provide the reason here! | <input type="checkbox"/> |

You can select many output fields and search criterias. Pay attention that the search button is not at the bottom but in the center of the page. Below the button the search results are displayed and the possibility to approve/deny the requests.

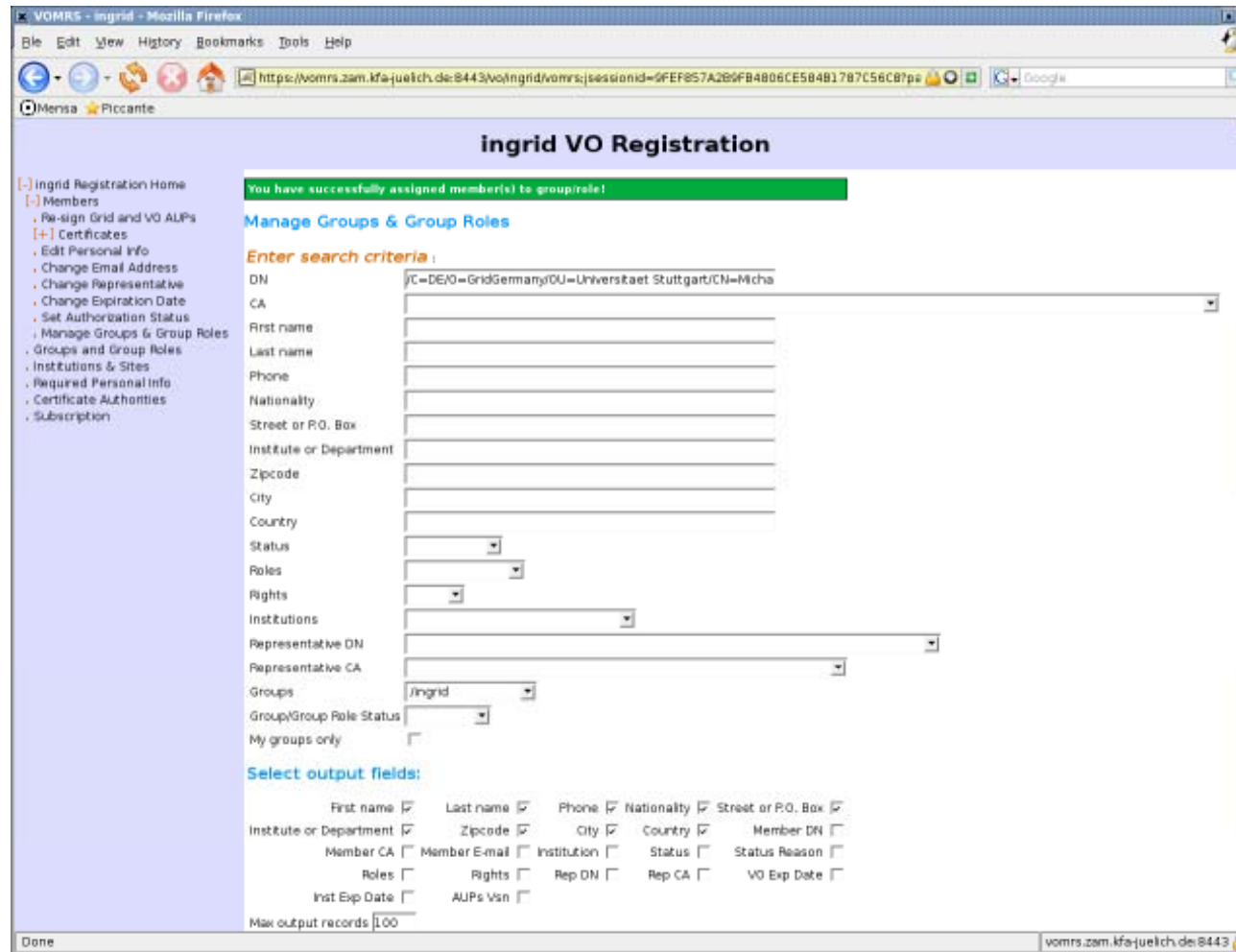
Approve VO membership



| Phone | Nationality | Street or P.O. Box | Institute or Department | Zipcode | City | Country | Group | Group role | Status | Select |
|-----------------|-------------|--------------------|-------------------------|---------|-----------|-------------|-------------------|------------|----------|-------------------------------------|
| 9-711-685-00000 | Deutsch | Nobelstraße 19 | HURS | D-70568 | Stuttgart | Deutschland | Angrid | | Approved | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridcas | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridform | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridkop | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridopt | | New | <input checked="" type="checkbox"/> |
| | | | | | | | Angrid/ingridturb | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridvis | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridwas | | | <input type="checkbox"/> |
| | | | | | | | Angrid/ingridwfl | | New | <input checked="" type="checkbox"/> |
| | | | | | | | Angrid/ingridwms | | New | <input checked="" type="checkbox"/> |

When a user is already a member of the VO and wants to change his subVO, these changes can be made in the „Select Groups & Group Roles“ entry in the menu or by following the link in the notification email when the user requests any changes.

Approve VO membership



After you have approve/denied any changes the page shown a success message.