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# Obtaining a Grid Certificate and Registration in ILCDirac

## Obtain a Grid Certificate

Get a grid certificate from your preferred certification authority. At CERN (for staff and users) that is <https://ca.cern.ch/ca/?template=ee2user>. Go to New Grid User Certificate. See your local grid expert (there is usually at least one GRID user in every lab nowadays) for the name of the certification authority corresponding to your institute.

## Register to the Virtual Organisation

Then, depending on your VO, either go to

<https://grid-voms.desy.de:8443/voms/ilc>

or

<https://grid-voms.desy.de:8443/voms/calice>

or both to register yourself as a VO member.

## Register to ILCDirac

Registration to iLCDirac is automatically done every day from the VOMS server.

## Use your Certificate to Obtain a DIRAC proxy

### Convert Certificate for DIRAC

Once registered in the VO and in DIRAC, you need to create the pem files. For this, export your certificate from your browser in p12 format. How to do this is documented in the [HeadFirstTalk](#) slides. This p12 will need to be converted. The DIRAC installation comes with a handy script to convert the p12 in pem format. To get this script, you need either to see the Installing DIRAC section up to the `dirac-proxy-init -x` or source the `bashrc` file from your existing local DIRAC installation. Then run

```
dirac-cert-convert.sh cert.p12
```

where `cert.p12` is the file you obtained from the browser export.

### Obtain a Dirac Proxy

To obtain the proper dirac proxy run

```
dirac-proxy-init -g group
```

Where `group` depends on the VO you joined or want to use: either `ilc_user` or `calice_user` for example.

-- AndreSailer - 21 Feb 2014: Moved from DiracForUsers

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