

Travel to: Geneva, Switzerland

Report date: 12/14/2001

Travel dates: 12/04/2001 to 12/09/2001 **Personal days:**

Travelers: Mike Helm and Tony Genovese

Position/Title: Network Engineers

Organization: Ernest Orlando Lawrence Berkeley National Laboratory (LB)

Business Address: One Cyclotron Road, Berkeley, CA 94720

FTMS: **Genovese:** 0112948 **Helm:**

Travel destinations: CERN Geneva

Purpose of trip: Attend the European Data Grid WP6 Certificate Authorities

People Contacted: Dr. David Kelsey and other CA managers.

Facilities visited: CERN

Abstract: Our focus for this meeting was to establish a working relationship between the DOESG PKI project and the Certificate Authorities in the European Data Grid (EDG). EDG consist of a number of member countries and organizations. Each organization runs their own PKI that support their individual Grids. Establishing this working relationship will allow our various organizations to except Certificates from each other. This is a requirement for the DOESG PKI.

Trip report for the EDG WP6 held in Geneva Switzerland

We traveled to Geneva to attend the Data Grid WP6 Certificate Authorities meeting held December 6th and 7th at CERN. At the meeting there were representatives from Grids/countries: UKHEP (UK), NIKHEF (NL), LIP (Portugal), CESNET (Czech Rep.), Nordu Grid (Scandinavia), EDG staff, INFN (Italy), Russian Data Grid and CERN (Switzerland).

The goals were: establish working relationship with EDG; steer EDG towards closer cooperation with Global Grid forum CP effort; discuss technical details of the EDG PKI and authorization infrastructure. Our PPDG customers (and possibly others) require us to get our DOESG certificates accepted by the EDG, as well as maintain some level of compatibility with their authorization (access control) methodology. We are trying to streamline the CP and policy agreement process by converging on a single CP that is acceptable to all sites through the GGF Grid CP working group.

The WP6 CA group is finishing its initial deployment phase for their individual PKI's. But new PKI's are starting to show up (i.e. DOESG, Germany (Karlsruhe), Taiwan, South Africa). These new PKI's are not part of the EDG community directly, but represent user communities that need to interoperate with EDG. Since they are the only operations oriented group for Grid PKI's their efforts are gaining notice. Their current use of the Acceptance Matrix will not scale. (<http://www.cs.tcd.ie/coghlan/cps-matrix/tst-matrix.html>) But, it will allow the dozen or so PKI's to determine which certificates their respective Grids can accept.

During the meeting we reviewed some CP concerns: Proof of Private Key ownership, Naming, AUP, etc. We also discussed the issue of the certificate providing only Authentication and not Authorization information. Many at the meeting are coming around to this idea. They also, agreed in "principle" that having one shared CP like the Grid CP had many benefits. It would simplify their Acceptance Matrix problem. Many have promised to become more involved with the GGF effort. Each site provided a status update. One note from Roberto Cecchini: His community is growing and he is starting to get overrun by certificate requests. This highlights how some very strong proof of identity requirements may not be supportable as our Grid communities grow.

Mike Helm presented an overview of the ESnet efforts to deploy the DOESG PKI. I presented an overview of the GGF Grid CP effort. The trip was very successful. We are going to be apart of the Acceptance Matrix and continue to work with this group on mutual certificate acceptance.

This work is in direct support of our DOE HQ project to have ESnet provide Directory/PKI infrastructure to DOE Grid efforts.