

## SA2

The Grid infrastructure of Enabling Grids for E-scienceE (EGEE) is made of several hundreds of sites heavily relying on the underlying network in order to connect the providers of computing, storage, instrumentation and the users of the Grid's Virtual Organisations.

The SA2 activity oversees the network Grid activity, and deals with all issues related to the network infrastructure inside the project and with outside groups and organisations. SA2 acts as the single interface between the EGEE infrastructure and the critical network infrastructure ensuring:

- Application network requirements are fulfilled and new network services (such as network Quality of Service or IPv6) are advertised to the EGEE users and delivered to the EGEE infrastructure;
- An efficient daily operational interface between the network infrastructures and the project, especially including information exchanges between network operational entities, Grid operations and the network user support within EGEE.

A key interface for collaboration with network providers is the Technical Network Liaison Committee (TNLC) – composed of National Research and Education Networks (NREN) which is strongly involved in the EGEE project and GÉANT2.

SA2 is fostering the adoption of advanced network services (Service Level Agreements, SLA) in Grid and network communities, aiming to provide Grid users with the best network services they can expect from today's network. Automatic mechanisms to achieve this are investigated to leverage wide adoption by Grid applications.

A support for IPv6 deployments within EGEE is also provided, in joint collaboration with the different actors involved in this deployment (JRA1, SA3, ETICS).

The EGEE Network Operations Centre (ENOC) acts as the day-to-day operational interface between EGEE and underlying network providers. It is the single point of contact for all networks related issues between EGEE and its network providers (GÉANT2, NRENS, etc.). The ENOC is also providing support to the LHC Optical Private Network (LHCOPN) and assessing the network connectivity of Grid sites. Work around new monitoring tools (perfSONAR based) and standardisation of network trouble tickets is also being carried out.

To fulfil these challenging goals SA2 is built on the broad experience acquired by three main partners (CNRS, GRNET and RRC-KI) during the two first phases of EGEE, and including some of others NRENS (DFN, GARR, RedIRIS) deeply involved in EGEE. The networking community is further represented through the strong participation of DANTE, ran by a consortium of European NRENS.

For more information, please visit [www.eu-egee.org](http://www.eu-egee.org), section Technical information / Networking support.

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