



Enabling Grids for
E-science in Europe

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*All Activity Meeting
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Status of SA2 Network Resource Provision

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 - Status of current and planned WBSS
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- State of the milestone for M3
- State of the deliverable for M6
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Since Cork

- **Apr'04** Finalize the WBS to have a resource planning.
 - Main task at Cork with the Russian partner (RCC KI)
- Work on the next schedules
 - **Jun'04** First meeting of EGEE-/NRENS Liaison Board (MSA2.1).
 - **Sep'04** Survey of pilot application requirements on networks, initial SLRs and service classes (DSA2.1).
 - **Jun'04** Activity Quality Plan
 - <https://edms.cern.ch/document/476027>

Working environment WBS – Detailed Efforts

- Only the next schedules for M3 and M6

Task	Task Title	S	E	Effort	CNRS	GRNET	RCC KI
TSA2.1	Provide MSA2.1 milestone	1	3	1,00	1,00		
TSA2.2.1	Organization	1	2	0,70	0,70		
TSA2.2.2	Meeting	3	3	0,30	0,30		
TSA2.2	Provide DSA2.1 deliverable	1	6	12,20	2,05		10,15
TSA2.2.1	Gathering of Application requirements	1	5	6,70	0,70		6,00
TSA2.2.2	SLR definition	1	4	2,00	0,50		1,50
TSA2.2.3	Definiton of service classes	3	5	1,50	0,50		1,00
TSA2.2.4	Loopback with JRA4	4	5	1,00	0,25		0,75
TSA2.2.5	Write/review deliverable	5	6	1,00	0,10		0,90

Working environment

- Unfortunately RCC KI uncountered difficulties in May to assume its responsibilities
 - The partner is 47% of teh activity.
 - It is critical for a small team.
- A slowdown in the SA2.2 task until the mid of June
- Since last week, a new RCC KI team
 - A new coordinator.
 - 3 technical specialists.

Working environment SA2 team

Collaborator name	Partner	Function	FTE	Since	Total PM
Jean-Paul Gautier	CNRS	SA2 Manager	1	01/04/2004	12
Mathieu Goutelle	CNRS		1	15/05/2004	12
Afrodite Sevasti	Grnet		0,25	01/04/2004	3
Mikhail Boyarskiy	RRC KI	RCC KI coordinator	0,5	09/06/2004	6
Veniamin Konoplev	RRC KI		0,5	09/06/2004	6
Alexander Ilin	RCC KI		0,5	09/06/2004	6
Anton Korotin	RCC KI		0,5	09/06/2004	6
Total effort			4,25		51
Total from the TA			4,25		51

Working environment Risk analysis

Risk title	Class	Level	Description
Hiring	M	2	Difficulties to hire people (latency + adequate profile)
Human	M	3	Weak level of distributed project management/information exchange/ resources & efforts collaboration between participants within Russia and internationally
Requirements	T	2	Gathering of adequate application network requirements. Collected application requirements currently are restricted/ limited by an existing network services, mostly best effort IP-based
Trouble ticket	S	2	Harmonisation of trouble ticketing systems
Terminology	T	1	Ununified terminology (definitions) for network and grid services.

Working environment Risk analysis



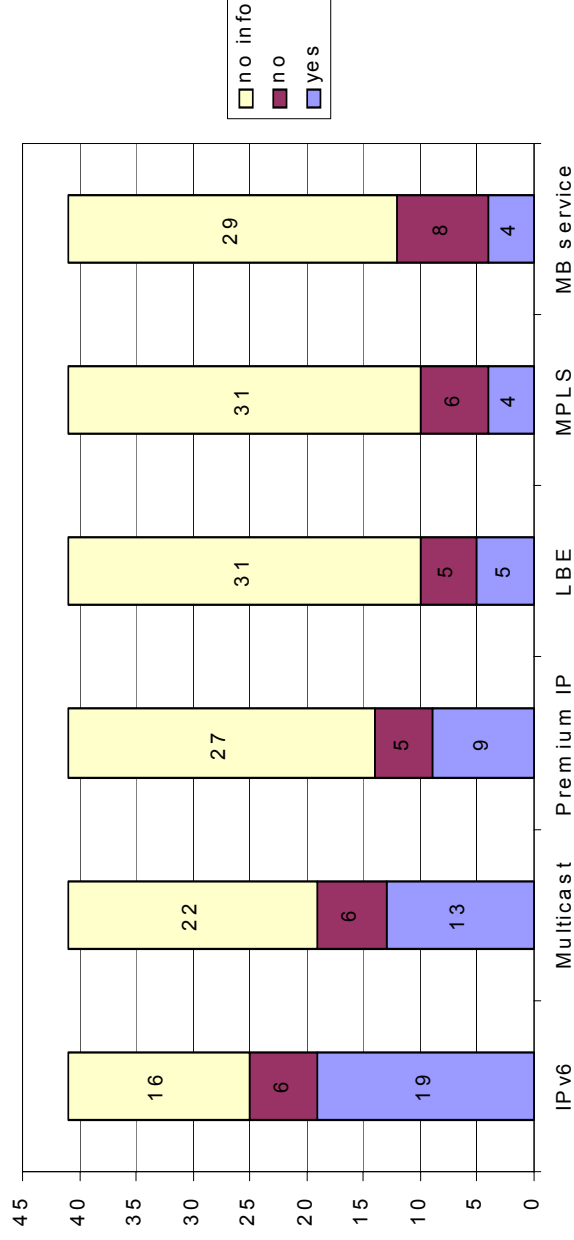
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Risk title	Class	Level	Description
SLA	P	3	Homogenisation of Network SLA: Network SLA for grid is not network SLA for NREN. Failure to agree SLA and then mutually agreed policies because of different aims of parties involved, esp. commercialized zones. Legal support of the contracts
SLA Monitoring	T	3	Monitoring: Difficulty to recognize and resolve a particular fault of exact participant/node in the network service providers chain.
QoS	S	2	Low level of network performance, esp. in Russia. Lack of GUARANTEED services/ quality
Techno	T	2	Failure to receive from the underlying network infrastructure (GEANT, NRENs, campus/last-mile parts of the end-to-end path) the services needed as technically and operationally specified in SA2

Working environment Network European context

- EGEE : 70 partners
- GEANT as the European Backbone
 - NRENs connectivity : 34 Mbs to 10 Gbs.

Network service deployment



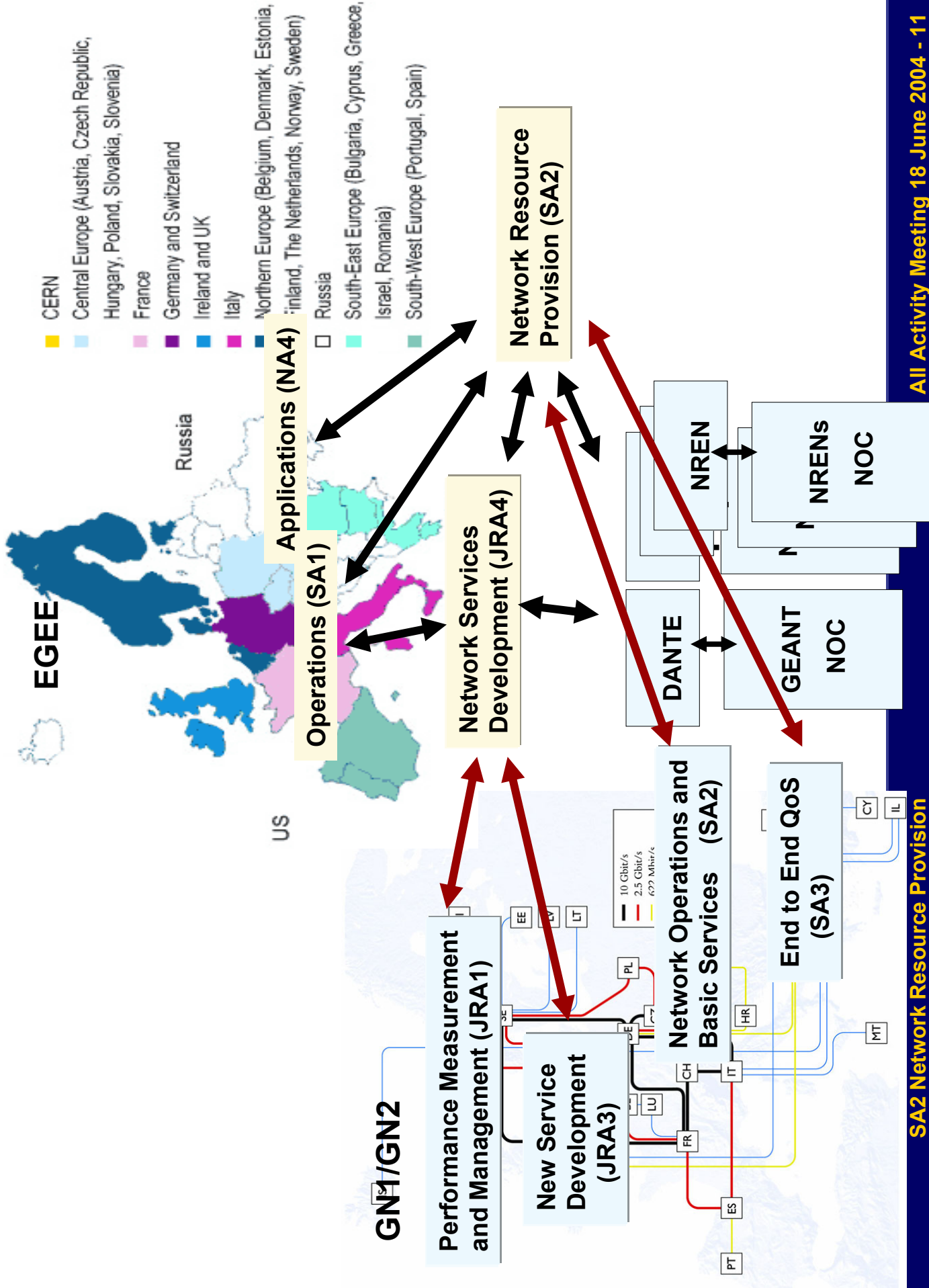
➔ **SA2 works in a long term perspective, we are highly dependent on the network services provided by the NRENs.**

MSA2.1 : Technical Network Liaison Committee

- The purpose of the committee is to provide an efficient place to deal with “practical” issues of interface between NRENS and EGEE.
 - Formalize the relationship.
- Memorandum of Understanding.
 - Between the EU EGEE and GN2 projects.
 - Purpose
 - GN2 will provide a high bandwidth network.
 - EGEE requires network services between its consortium members.

Ultimate goal is to provide services from GN2 to EGEE.

Both projects have a common interest in a close cooperation in order to achieve their respective objectives.



MSA2.1: Technical Network Liaison Committee

- Document : <http://edms.cern.ch/document/475291>
- Mandate
 - SLAs
 - To approved the SLs which will be delivered by GEANT and NRENs.
 - To present, disseminate and discuss proposed SLAs.
 - To approve SLA monitoring procedures.
 - To receive and assess reports network performance against the SLAs.
 - Network services
 - To agree recommendations for deployment of network services.
 - To receive reports on the proposed network services.
 - To receive requests from the EGEE team for new features.
 - Operational interface
 - To present formal EGEE requirements and use cases to GEANT/NRENs
 - To present EGEE traffic usage monitoring for assessment of the network usage. The TNLC should use these reports for decisions and futures recommendations.

MSA2.1: Technical Network Liaison Committee

- **Members**
 - EGEE :
 - Jean-Paul Gautier (SA2),
 - Javier Orellana (JRA4),
 - Jules Wolfrat (SA1)
 - NRENS
 - Roberto Sabatino (DANTE)
 - Afrodite Sevasti (GRNET)
 - Klaus Ulmann (DFN)
 - Enzo Valente (GARR)
- 1st meeting, 17th June
 - Study of the futur actions which need a collaboration between NRENS and EGEE.
- **Agenda**
 - Quick round table on the TNLC document.
 - Network requirements
 - from EGEE point of view.
 - from NRENS point of view.
 - Collaboration EGEE/NRENS
 - Network provision follow-up.
 - NOC operation survey (SA2 task on June-July-August)
 - Trouble Ticketing Systems study (GOC & NOC)

MSA2.1: Technical Network Liaison Committee

- Main decisions
 - SA2 will provide a database of the EGEE sites
 - Their connectivity
 - The expected connection date
 - What network services they can access.
 - SA2 will provide a questionnaire for the NRENs' NOCs in order to have a good overview about the NOC's services
 - What system of TT
 - Problem escalation
 - ...

TSA2.2: Network services

- TSA2.2.1 : Collection of application network requirements
- TSA2.2.2 : SLR definition
 - Application identification and support (NA4)
Grid Operations, Support and Management (SA1)
- A common workgroup SA2-JRA4
 - To produce a requirement document for SA2 and JRA4
 - The same approach for the both activities
 - To get detailed real use cases for resources and monitoring.
- Translation in terms of SLRs (Service Level Requirements)
 - Operational
 - Service end-points, Duration, Scheduling, Monitoring, Service end-points
 - Flow control
 - Differentiation, Prioritization
 - Network characteristics
 - Bandwidth, Delay, Jitter

TSA2.2: Network services

- To succeed
 - To have a great collaboration from the EGEE application layer.
 - Meetings with SA1 & NA4
 - 23 June : SA1-SA2-JRA4 meeting in Paris.
 - 15-16 July : NA4-SA2-JRA4 session at the NA4 Open Conference
 - To be proactive
 - A network tutorial « The network, a resource for the applications »
 - A summary at the NA4 Open Conference
 - At the next French Federation meetin in Marseille (october 2004).
 - Would NA3 be interested ?

Highest priority steps

- To make up for the time lost by RCC KI.
 - In TSA2.2.1 : Collection of application network requirements
 - To meet the deadline for DSA2.2 (TSA2.2 task)
- To have a map of EGEE sites in each country.
 - A good overview on the expected network services.
- To begin the MSA2.3 task on the operational interfaces
 - Study of the NOCs