SA2 Execution Plan for the first year

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Objectives

- **Ensures EGEE access to network services provided by GEANT and the NRENs to link users, resources and operational management**

  Do this by managing the relationship between EGEE and GEANT

- Tasks
  - Definition of requirements
  - Specification of services
  - Definition of network access policies
  - Monitoring of service level provision
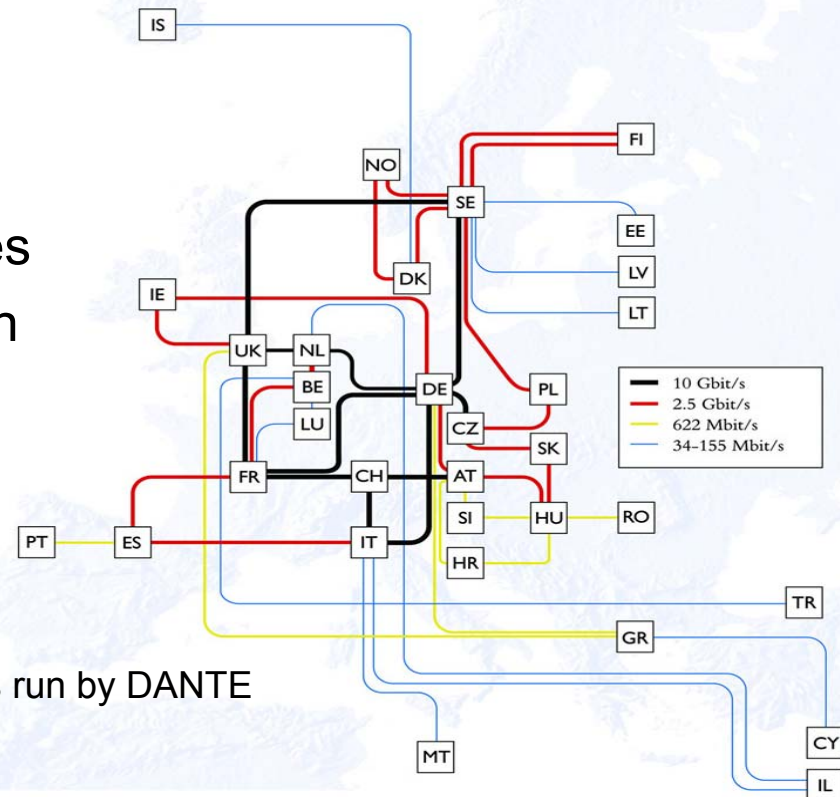
GEANT High-speed pan-European backbone linking NRENs run by DANTE
NRENs National Research and Educational Networks
DANTE Not-for-profit company that manages GEANT

SA2 Approach

- Definition of network services through standard modelling process:
  - Filling of SLRs (Service Level Request) by end users and applications
  - Definition of SLSs (Service Level Specification) by SA2, to be implemented by GEANT and the NRENs, in conjunction with JRA4 activity
  - Signature of SLAs (Service Level Agreement) between applications, SA2 and GEANT/NRENs

- Network Operation Centre (NOC) operational procedure study on GEANT and selected NRENS and incremental integration with EGEE GOCs.

- Outside the scope of EGEE to provide connections for any user or resource site
  - Sites must have adequate bandwidth & performance to join the production grid facility

- Go beyond existing best effort IP service to meet the needs of a production level grid network

SA2 Management Structure and partners

UREC will manage SA2 and oversee both SA2 and JRA4 activities, and will be responsible for DANTE and the NRENs liaison

Participant	Description of Role	FTE (EU funded + unfunded)
CNRS/UREC	Network Co-ordinator overseeing both service (SA2) and research activities (JRA4); responsible for DANTE and the NRENs liaison. Network resource provision requirements SLR/SLS/SLA definitions Operational model	2 (1+1)
RCC KI	Network resource provision requirements SLR/SLS/SLA definitions Operational interface between RDIG, Russian network providers and EGEE.	2 (1+1)
GRNET	Network resource provision requirements SLR/SLS/SLA definitions	0,5 (0+0,5)
Total (FTEs)		**4 (2+2,5)**

SA2 Milestones and deliverables

PM	Deliverable or Milestone	Item
M3	**Milestone** MSA2.1	First meeting of EGEE-GEANT/NRENS Liaison Board
M6	**Deliverable** DSA2.1	Survey of pilot application requirements on networks, initial SLRs and service classes.
M9	**Milestone** MSA2.2	Initial requirements aggregation model, specification of services as SLSs on the networks,
M12	**Milestone** MSA2.3	Operational interface between EGEE and GEANT/NRENs.
M12	**Deliverable** DSA2.2	Institution of SLAs and appropriate policies.
M24	**Deliverable** DSA2.3	Revised SLAs and policies.

WBS 1/3 – Product Tasks

Task	Task Title	S	E	Effort	Explanation
TSA2.1	**Provide MSA2.1 milestone**	**1**	**3**	**1,00**	MSA2.1: First meeting of EGEE-GEANT/NRENS Liaison Board
TSA2.2.1	Organisation	1	2	0,70	
TSA2.2.2	Meeting	3	3	0,30	
TSA2.2	**Provide DSA2.1 deliverable**	**1**	**6**	**11,00**	DSA2.1: Survey of pilot application requirements on networks, initial SLRs and service classes.
TSA2.2.1	SLR definition	1	2	2,00	
TSA2.2.2	Gathering of Application requirements (NA4 using SLR)	2	5	5,00	
TSA2.2.3	Definiton of service classes	3	5	1,50	
TSA2.2.4	Loopback with JRA4	4	5	1,50	
TSA2.2.5	Write/review deliverable	5	6	1,00	
TSA2.3	**Provide MSA2.2 milestone**	**3**	**9**	**5,50**	MSA2.2: Initial requirements aggregation model, specification of services as SLSs on the network.
TSA2.3.1	Aggregation modeling	3	4	1,50	
TSA2.3.2	SLS definition	4	8	2,00	
TSA2.3.3	Loopback with JRA4	6	8	1,50	
TSA2.3.4	Validation with GEANT/NRENs	8	9	0,50	

WBS 2/3 - Product Tasks

Task	Task Title	S	E	Effort	Explanation
TSA2.4	**Provide MSA2.3 milestone**	**3**	**12**	**11,00**	MSA2.3: Operational interface between EGEE and GEANT/NRENs.
TSA2.4.1	NOC operations survey	3	5	1,50	
TSA2.4.2	TT Systems study (GOC & NOC)	4	5	1,00	
TSA2.4.3	Develop interfaces	6	8	2,00	
TSA2.4.4	setup operational interface	7	12	5,50	
TSA2.4.5	Write/review procedures	11	12	1,00	
TSA2.5	**Provide DSA2.4 deliverable**	**6**	**12**	**12,00**	DSA2.4: Institution of SLAs and appropriate policies.
TSA2.5.1	SLA / Policies definition	6	10	5,00	
TSA2.5.2	Loopback with JRA4	8	10	3,00	
TSA2.5.3	"Contractualisation" between partners (VO / GEANT / NRENS)	10	12	3,00	
TSA2.5.4	Write/review deliverable	11	12	1,00	

WBS 3/3 - Recurrent Tasks

Task	Task Title	S	E	Effort	Explanation
TSA2.6	**Network Services follow-up**	**1**	**12**	**3,50**	
TSA2.6.1	Network provision follow-up	1	12	1,50	Gathering of network indicator, checking of SLA adherence
TSA2.6.2	SLA aderence follow-up	10	12	0,50	
TSA2.6.3	Interaction GOC/NOC follow-up	6	12	1,50	
TSA2.7	**Management of Liaison with other EU project**	**1**	**12**	**1,00**	6net, GARGEN, GRANDE…
TSA2.8	**Management of Liaison with DANTE**	**1**	**12**	**1,00**	MoU with GN2
TSA2.9	**JRA4 Follow-up**	**1**	**12**	**1,50**	Coaching
TSA2.10	**Review the deliverables from other activities**	**1**	**12**	**1,00**	
TSA2.11	**SA2 Management**	**1**	**12**	**2,50**	(5% of Total)

Groups involved and key individuals

Collaborator name	Partner	Function	FTE	F or UF	Total PM
Bonnassieux Franck	CNRS	SA2 Manager	1	UF	12
X	CNRS		1	F	12
Sevasti Afrodite	Grnet		0,25	UF	3
Teryaev Sergei	RRC KI		1	UF	12
X	RRC KI		1	F	12
Total effort			4,25		51
Total from the TA			4,25		51

Risk analysis

Risk title	Class	Level	Description
Hiring	M	2	Difficulties to hire people (latency + adequate profile)
Glue	M	3	Activity resources dispersion
Requirements	T	1	Gathering of adequate application network requirements
SLA	P	2	Harmonisation of Network SLA: Network SLA for grid is not network SLA for NREN
Trouble ticket	S	1	Harmonisation of trouble ticketing systems
Techno	T	2	failure to receive from the underlying network infrastructure (GEANT, NRENs, campus/last-mile parts of the end-to-end path) of the services needed as technically and operationally specified in SA2

Relations with NAx

- **NA1**: Management

- **NA2**: Dissemination and Outreach

- **NA3**: User Training and Education

- **NA4**: Application Identification and Support
  - Collection of application network requirements
  - Definition of SLS (Service Level Specifications)
  - Signature of SLAs (Service Level Agreement)
  - Follow-up of SLA adherence

- **NA5**: Policy and International Cooperation

Relations with SA1
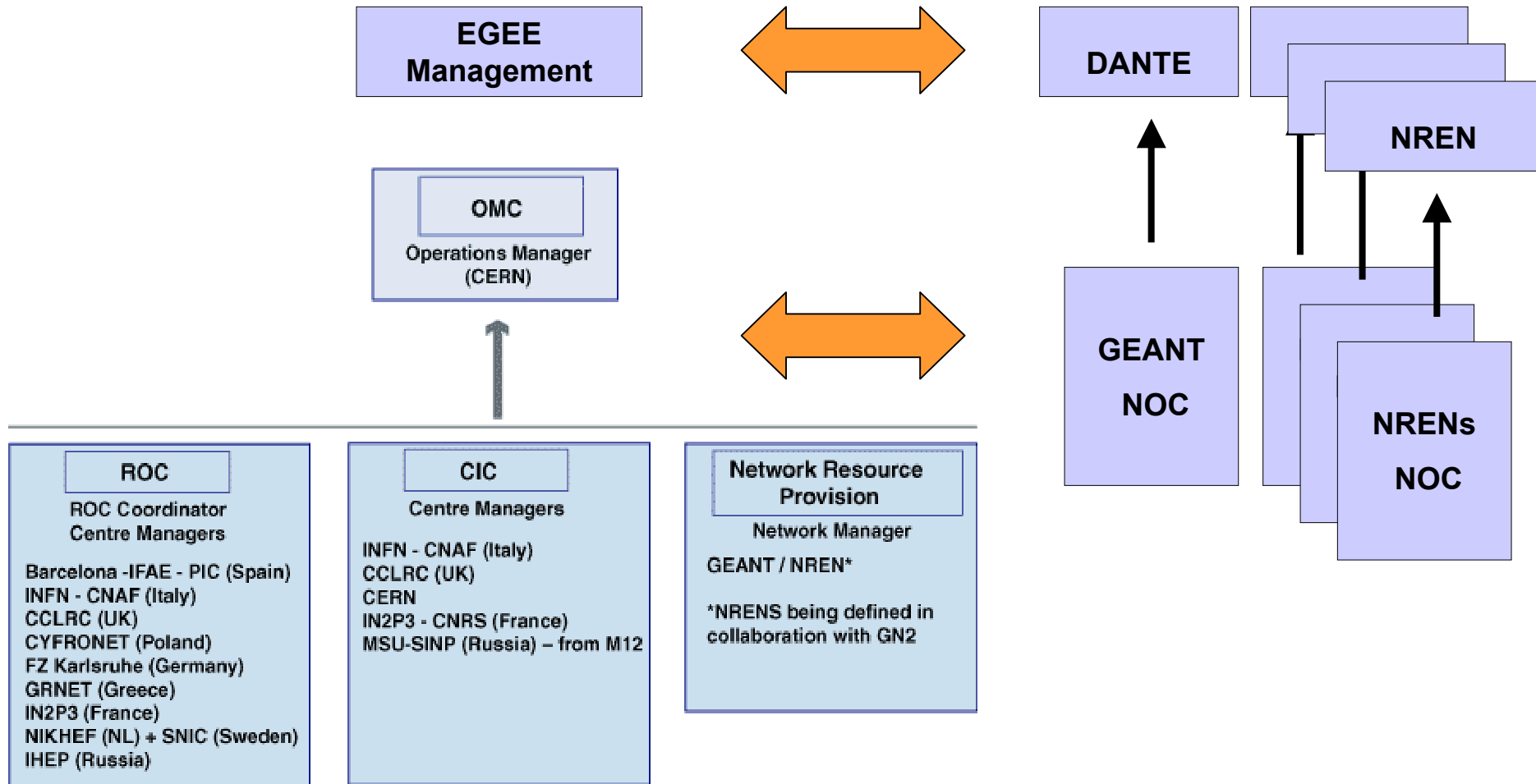
Define interactions and operational model between GOCs and NOCs
(Procedures, Trouble Ticketing, Escalations, SLAs…)

changes requested to the TA

- GRnet Effort in SA2 from 0.5 UF to 0.25 UF
- Deliverable and milestone names harmonisation throughout the TA

steps to be done between now and the project startup

- Hiring people
- Organize close collaboration with DANTE
- Synchronize work and deliverable with GN2
- SA2 management transition