

EGEE

NA4 EXECUTION PLAN FOR THE 1ST YEAR

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Abstract: This document describes the execution plan for NA4 (applications identification and support) Activity for the first year of the EGEE project.

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1. INTRODUCTION

1.1. PURPOSE

This document describes the execution plan for NA4 Activity for the first year.

The main items described are the following:

- NA4 overview
 - Recall the scope of the work (from TA)
 - Table of milestones and EU deliverables
- Organisation, role & responsibility (from TA + refinements)
- NA4 Management monitoring
 - Product Breakdown Structure (PBS)
 - Work Breakdown Structure (WBS)
 - Staffing and resource plan
 - Training
 - Initial risk assessment
 - Initial quality target indicators
 - Major links with other activities
 - Timeline with GANTT chart
- Technical Main Processes
- Tools & Methodology

1.2. APPLICATION AREA

The execution plan refines NA4 activities defined in the technical annex. The work on the execution plan may lead to minor changes to the Technical Annex.

1.3. REFERENCES

[R1] https://edms.cern.ch/document/400278	Technical Annex
[R2] https://edms.cern.ch/document/422807	Execution Plan Guidelines
[R3] https://edms.cern.ch/document/422978	JRA2 execution plan

1.4. DOCUMENT EVOLUTION PROCEDURE

This document will be updated incrementally as the NA4 Activity knowledge increases.

Comments should be sent to the author.

1.5. TERMINOLOGY

Glossary

ISO 9001	International Organization for Standardization: Quality assurance normalization
JRA2	EGEE Quality Assurance activity
NA4	EGEE application identification and support activity
QA	Quality Assurance
QAG	Quality Group
QAM	Quality Management Team
QAR	Quality Assurance Representative
TA	Technical Annex
PBS	Product breakdown structure
xPM	x Person Month
PMx	Project Month x
WBS	Work breakdown structure

Definitions

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2. NA4 OVERVIEW

2.1. SCOPE OF THE WORK

Activity NA4 focuses on the identification and support of early-user and established applications for use on the EGEE infrastructure. It has the following objectives:

- To identify through the dissemination partners and a well defined integration process a portfolio of early user applications from a broad range of application sectors from academia, industry and commerce.
- To support development and production use of all of these applications on the EGEE infrastructure and thereby establish a strong user base on which to build a broad EGEE user community.
- To initially focus on two well-defined application areas – Particle Physics and Life sciences.

The expected outcome of the activity will be the establishment of a broad portfolio of applications across a wide range of sectors suited to execution on the EGEE infrastructure meeting the needs of a broad collection of user groups from many sectors across Europe as illustrated in Figure (note the timeline for the introduction of each application domain is purely illustrative).

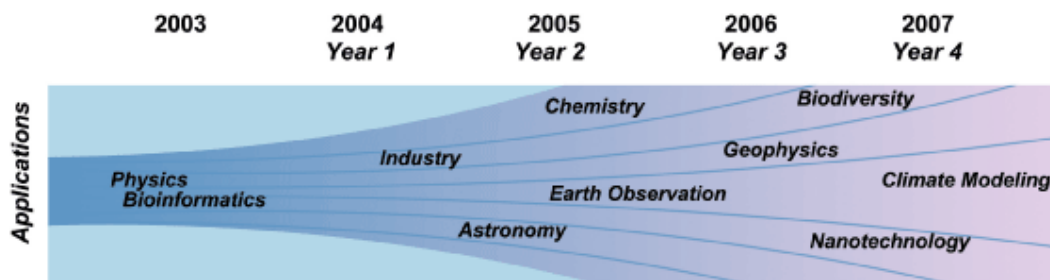


Figure 1 Schematic illustration of the broadening portfolio of scientific communities using the European Grid infrastructure over the four year programme of which EGEE represents the first two years. The applications names and dates are purely illustrative.

2.2. TABLE OF NA4 MILESTONES AND EU DELIVERABLES

Month	Deliverables & Milestones	Item	Lead Partner
M1	MNA4.1	Definition of requirements from applications and first version of associated testsuite	CNRS
M3	DNA4.1	Definition of Common Application Interface and Planning Document	CNRS
M6	DNA4.2	Target Application Sector Strategy document	CNRS
M6	MNA4.2	First applications migrated to the EGEE infrastructure	CNRS
M9	DNA4.3.1	EGEE Application Migration Progress report	CNRS

M12	MNA4.3	First external review of Applications Identification and Support with feedback	CNRS
M15	DNA4.3.2	EGEE Application Migration Progress report	CNRS
M21	DNA4.3.3	EGEE Application Migration Progress report	CNRS
M24	DNA4.4	Final report of Application Identification and Support Activity	CNRS
M24	MNA4.4	Second external review of Applications Identification and Support with feedback	CNRS

3. ORGANISATION

3.1. NA4 MANAGEMENT ORGANISATION

The following organization is proposed:

- NA4 steering committee will be in charge of NA4 management. Meeting once a month, it is composed of NA4 manager and deputy manager, HEP, biomedical and generic activity managers and chairman of industry forum

NA4 steering committee will address issues related to resource allocation, activity achievements with respect to execution plan, non technical relationship to other project activities,...

3.2. NA4 TECHNICAL ORGANISATION

NA4 HEP, biomedical and generic activities together with NA4 management have to accomplish the following technical tasks inside the project:

- In relationship with project middleware activity (JRA1), to transmit application requirements, to follow the middleware development process (ARDA), to validate middleware testing and to coordinate the characterization of a high level application interface to the grid
- In relationship with project quality activity (JRA2), to define evaluation criteria for infrastructure performances and application usage, to monitor and analyze performances during the project lifetime
- In relationship with project operations (SA1), to define the agenda for applications deployment, to define virtual organizations and their hierarchy, to define the policy for adding nodes to the infrastructure and criteria for node selection

In addition to these tasks within the project, NA4 management has to establish and animate the relationship between EGEE and external projects at the application level. This involves the identification of possible synergies with other infrastructure projects, the joint definition of requirements and/or the discussion of common interfaces.

The following organization is proposed:

- The Application Working Group (AWG), with 2 representatives of NA4 management, 2 representatives of each application area and the test team coordinator, will be in charge of NA4 technical coordination: edition of technical documents, definition of requirements, high level interface and virtual organizations, interaction with middleware, technical relationship to external projects. It will meet once a month during the first project year.
- The NA4 HEP extended steering committee will further handle the specific issues related to the relationship between EGEE and LCG. It will meet once every 2 months.

3.3. EGEE GENERIC APPLICATIONS ADVISORY PANEL (EGAAP)

EGEE infrastructure is going to be used by different categories of applications:

- "pilot" applications are used to test EGEE middleware and to evaluate performances. They are under the responsibility of NA4 funded partners in charge of HEP and biomed. They are starting at project day 0.
- "internal" applications come from within the project in the sense that they involve EGEE partners in collaboration with institutes external to EGEE. A good example is GPCALMA (mammography) led by INFN, or HEP experiments beyond LHC (Babar, D0,...). These applications have already a good middleware experience. Internal applications should be identified as they are often deployed at a national level and are therefore extremely dependent on interoperability between EGEE and national initiatives. However, it must be clear NA4 can not commit to support them.
- "external" applications. These applications come from collaborations external to EGEE and need support for deployment on EGEE.

Clearly, HEP experiments are either "pilot" or "internal", generic applications are most of the time "external" while biomedical applications can belong to the three categories. As external applications require NA4 support, it appears necessary that they go through a selection procedure described below.

1) The EGEE Generic Applications Advisory Panel (EGAAP) is in charge of facilitating the deployment of potential new applications on the EGEE infrastructure. It will advise the Application team in EGEE on the allocation of their resources to that effect. It will collect the necessary information about the application candidates, identify the needs to achieve this goal and make recommendations to that effect to:

- the NA4 management for allocation of the NA4 resources to the applications which need them
- the EGEE Project Execution Board where the technical consequences of this new deployment will be examined. In the case where the application impact is deemed very important for EGEE, the EGEE Project Management Board will be noticed.

2) Criteria used for recommendations

The EGEE Generic Applications Advisory Panel will use the following criteria to make its recommendations:

- scientific interest of the proposed work, with particular emphasis on the grid added-value,
- added value for EGEE to have such an application running on its infrastructure
- coordination of the corresponding community,
- grid-awareness of this community
- minimum requirement that a small team followed the EGEE training, dedication of the community to this application,
- agreement to the various EGEE policies and especially the security and resources allocation policies.

3) EGAAP will hear regularly reports from the deployed applications on the EGEE infrastructure

4) In the case of industrial applications, the EGEE Generic Applications Advisory Panel can require input from the EGEE Industry Forum

5) Membership

The selection panel is formed of 8 nominated members in addition to ex-officio members. 2 members designated by the NA4 team leader from within the EGEE project and 5 members designated by the NA4 team leader from a list of nominees outside the EGEE project suggested by members of the EGEE Project Management Board. The chair is chosen among these 8 members by the NA4 team leader, in consultation with the EGEE management. The membership term is one year, renewable once.

The ex-officio members are:

NA4 team leader

NA4 generic applications coordinator

NA4 Industry Forum coordinator

EGEE technical director

EGEE project manager

6) The EGAAP will meet at least twice a year.

4. ACTIVITY MANAGEMENT MONITORING

4.1. PRODUCT BREAKDOWN STRUCTURE

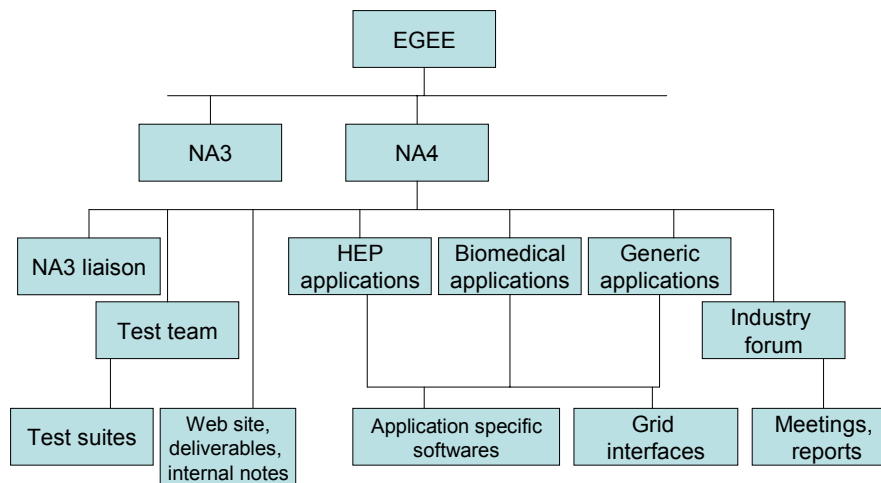
The Product Breakdown Structure (PBS) serves as a logical decomposition of the system in order to identify smaller and smaller subsets until the lowest level which could be new component, external software or material.

The PBS refers only to the products not services. For example for JRA1 the Grid Middleware is a top-level product.

4.2. WORK BREAKDOWN STRUCTURE

NA4 products are applications deployed on EGEE infrastructure. An application is a package made available to a community of users in the grid environment. An application may require application specific software which is interfaced to the grid. Its deployment on the grid infrastructure takes place within a virtual organization gathering a community of grid users.

(JJB : handling virtual organization requires grid tools. It should be part of grid interfaces box)



4.3. TA EFFORT ESTIMATE

This section extracted from the TA, recalls the TA NA4 estimated efforts.

The effort expressed in FTE in the TA, are converted into Person month (PM). One FTE=12PM, *i.e.* 24PM for the duration of the project. The distribution of the resources between the first and the second year of the project is added.

Activity NA4	Total effort (FTE) during 2 years	Total effort (PM) during 2 years	1 st year effort (PM)	2 nd year effort (PM)	Activity
CERN	16	192	96	96	HEP
CESNET	3.2	38.4	19.2	19.2	Generic
MTA	0.8	9.6	4.8	4.8	Generic
UEDIN	2	24	12	12	NA3 liaison
CNRS	20	240	120	120	Bio + Coord + testing team
CSSI	4	48	24	24	Testing team
CRSA	4	48	24	24	Industry forum
DKRZ	2	24	12	12	Generic
FhG	2	24	12	12	Generic
INFN	8	96	48	48	Generic
FOM	4	48	24	24	Generic
IHEP	3.2	38.4	19.2	19.2	HEP
IMPB RAS	2.6	31.2	15.6	15.6	Bio
ITEP	4	48	24	24	HEP
JINR	3.2	38.4	19.2	19.2	HEP
PNPI	3.2	38.4	19.2	19.2	HEP
RRC KI	4	48	24	24	HEP
SINP-MSU	4	48	24	24	HEP
CSIC	4	48	24	24	Bio
UPV	4	48	24	24	Bio
TOTAL	98.2	1178.4	589.2	589.2	

Total effort = Funded + Unfunded, PM = efforts are expressed in Person month.

(JJB : how to handle the fact that so many people have to start at the same time ? Probably, most partners should start at PM6)

4.4. WORK BREAKDOWN STRUCTURE FOR THE FIRST YEAR

The Work Breakdown Structure (WBS) is constituted during the initial phase of the project and will be the basis for setting up the first project planning.

The following table will be updated deeper as NA4 activities will be refined.

The PM total effort corresponds to the TA effort expressed in PM for the first year.

4.4.1. Task NA4.1 Initial definition of requirements

Month start : PM0, Month end : PM1, outcome : MNA4.1 Milestone M1 Consolidation of requirements from all applications sectors

NA4 groups involved : NA4 coordination, HEP, biomed, generic

Subtask NA4.1.1 Consolidation of requirements from all application sectors

The work consists in compiling existing documents from EDG and other projects (LCG, GridLab, ARDA, Healthgrid, etc...). These requirements will be reviewed at the end of the first project year.

Effort : HEP(1PM), Bio(1PM), Generic (1PM), NA4 coordination (1PM)

TA : change title of MNA4.1 to “Consolidation of requirements from all application sectors ”)

4.4.2. Task NA4.2 Basic foundations of common application interface and associated roadmap

Month start : PM0, Month end : PM3, outcome : DNA4.1 Deliverable at M3 “basic foundations of common application interface and associated roadmap.”

NA4 groups involved : NA4 coordination, HEP, biomed and generic

Subtask NA4.2.1 Basic foundations of common application interface

The work consists of collecting existing documents from EDG and other projects (LCG, GridLab, ARDA, Healthgrid, etc...) and proposing a common application layer. As well as HEP and Biomed, a contribution from generic applications is expected to at least validate the proposed layer.

Effort : NA4 Coordination(6PM), HEP (4PM), Bio (3PM + 1PM), Generic (1PM + 1PM)

Subtask NA4.2.2 Writing of deliverable DNA4.1

This document describes the basic foundations of common application interface and associated roadmap.

Effort : NA4 coordination(2PM), HEP(1PM), Biomed (1PM) and generic(1PM)

TA : change title of DNA4.1 to “Basic foundations of common application interface and associated roadmap”)

4.4.3. Task NA4.3 Definition of the strategy for application integration and deployment

Month start: PM0, Month end : PM6, outcome : deliverable DNA4.2

NA4 groups involved : NA4 coordination, generic, NA3 liaison

Subtask NA4.3.1 Planning for HEP and Biomed

The work consists of planning the deployment of pilot applications during the project lifetime.

Effort : HEP (4PM), Bio (3PM + 1PM), NA4 coordination (1PM)

Subtask NA4.3.2 Definition of the strategy for generic applications

The definition of NA4 strategy towards new users communities has to take into account many criteria internal and external to the project. Strategy has to be defined at different levels:

- deployment of applications on the existing EGEE infrastructure
- addition of new nodes to the EGEE infrastructure
- training and user support from the project
- virtual organization

Strategy will be discussed with JRA1, middleware engineering and integration, SA1 and NA3 through the NA3 liaison.

Effort : NA4 coordination (3PM), NA3 liaison (2PM), generic (6PM)

Task NA4.3.3 First set-up of the selection process for generic applications

The set-up of the selection process involves the creation of the selection committee.

Effort : NA4 coordination (1PM), generic (1PM)

Task NA4.3.4 Writing of deliverable DNA4.2

The deliverable DNA4.2 “Strategy document for the deployment of applications” at PM6 describes the strategy adopted by NA4 to involve new communities of users and industrial partners. It also proposes rules for collaboration between EGEE and external user communities. The document describes also deployment of pilot applications during the project lifetime.

Effort : NA4 coordination (2PM), HEP(1PM), Biomed(1PM), generic (1PM)

TA : change title of DNA4.2 to “Strategy document for the integration of new application communities “

4.4.4. Task NA4.4 Migration of the first pilot applications to EGEE infrastructure

The first applications migrated on EGEE will originate from the two scientific areas identified as early users of the infrastructure : High Energy Physics and Life Sciences.

Month start : PM0, month end : PM12 , outcomes : milestone MNA4.2 “First applications migrated to the EGEE infrastructure” at PM6, deliverable DNA4.3 “EGEE Applications Migration Progress report” (change the title of DNA4.3)

NA4 groups involved : NA4 coordination, HEP, biomed, NA3 liaison

Task NA4.4.1 Selection of current application portfolios

The identification of biomedical applications that could potentially benefit from the grid is more complex than the identification of potential HEP applications. For HEP, there is well defined application related to Monte-Carlo production. Batch analysis could be also addressed.

Effort: HEP (1PM), Biomed (2PM)

Task NA4.4.2 Migration of pilot applications

This task involves the creation of virtual organizations.

Effort: 141PM (HEP) + 78PM (Biomed) + 3PM (coord.) + 2PM UNEDI (NA3 liaison)

Task NA4.4.3 Writing of the part concerning pilot applications of deliverable DNA4.3.1 “EGEE Application Migration Progress report” at PM9

Effort: HEP(1PM), Biomed(1PM) , NA4 coordination (2PM)

4.4.5. Task NA4.5 Deployment of first generic applications

Month start : PM0, Month end : PM12, outcomes : deliverable DNA4.3.1 “EGEE Application Migration Progress report” at PM9, milestone MNA4.3 “First review of Applications Identification and Support with feedback” at PM12

NA4 groups involved: Generic, NA4 coordination, NA3 liaison

Task NA4.5.1 Selection of one or two generic applications

Contacts established before the project start-up and during the first month of the project will end up with the selection of one or two large scale applications coming from communities outside HEP and Biomed. The selection will be done along the lines of the selection process defined in task NA4.3 although this process is not fully operational.

Effort : Generic (1PM), NA4 coordination (1PM)

Task NA4.5.2 Preparation of application deployment

This involves the creation of virtual organizations, identification and training of the engineers in charge of the deployment, organization of support.

Effort : Generic (6PM), NA4 coordination (2PM), NA3 liaison (2PM)

Task NA4.5.3 Migration of first generic applications

Effort : Generic (44PM)

Task NA4.5.4 Selection of one or two more generic applications

For this second cycle, the selection process defined in task NA4.3 will be operational

Effort : Generic (2PM), NA4 coordination (1PM)

Task NA4.5.5 Second preparation of application deployment

For this second round, the effort should be smaller as the process will be better known.

Effort : Generic (3PM), NA4 coordination (1PM), NA3 liaison (1PM)

Task NA4.5.6 Migration of second round of generic applications

Effort : Generic (44PM)

Task NA4.5.7 Writing of the part concerning generic applications of deliverable DNA4.3.1 “EGEE Application Migration Progress report” at PM9

Effort: Generic(1PM) , NA4 coordination (1PM)

TA : change title of MNA4.3 to “First review of Applications Identification and Support with feedback”

4.4.6. Task NA4.6 Management of NA4

Month start : PM1, Month end : PM12

NA4 groups involved : NA4 coordination, HEP, bio, generic

This task corresponds to the NA4 management : attendance to NA4 steering committee meetings, to Project Executive Board, project conferences, travels to visit NA4 partners, edition of internal and quarterly reports, minutes,...

Effort : CERN(3PM), CNRS(15PM), INFN(3PM)

Subtask NA4.6.1: organization of NA4 management

Subtask NA4.6.2: identification of NA4 contacts within other activities – identification of other activities contacts within NA4.

Review deliverables from other activities

4.4.7. Task NA4.7 : Test suite

Month start : PM0, Month end : PM12, outcome : test suite

NA4 groups involved : NA4 test team, HEP, Biomed, Generic, NA4 coord.

NA4 test team is part of the quality organization proposed and described in detail in JRA2 execution plan [R3].

Three type of test can be described :

The tests of services availability : Job submission and management, files management, Information service, ...

The tests of functionality : To verify that functionality are available , usable and complet. By example, this is the file creation, removing, moving or information publication, usage, errors recovery

Tests to measure the performance : Measures in order to characterize the testbed. A part of them will be time measures (time to submit X job, time to replicat Y files,...) . Others will be scalability measures (how many jobs can be accepted by services Z, files limits size,...). And others will be more abstract (information availability, errors message access,...)

Use cases coming directly from the application groups will come to enrich the test suite during the project. The test team will also test new releases from middleware on behalf of NA4.

Task NA4.7.1: **Collect, selection and modification** of existing test suites (PM1)

This first version of the test suite should come out of EDG/LCG . **A modification of the existing tests should be needed in order to use them with the EGEE testbed (EDG interface, Web services, Alien interface or others)**

Effort : CNRS(1PM), CSSI(2PM)

Task NA4.7.2: definition of application specific test suites (PM4)

The definition of the test suite would cover all the services provided by EGEE. But a priority should be done to the services pointed by the applications layer. All this set of tests would use a common “framework”. That means : input and output, synthax, options, parmeters, display should be defines and be sharing by all the tests of the testsuite. This approach is needed to be sure to have a minimum of coherence about the tests usage.

During this phase, the people involved on the tests need to have a close contact with the developers (JRA1) to include/remove the new/old services of EGEE to adapt the tests with the services interface.

Effort : CNRS (3PM), CSSI(6PM), HEP (1PM), Bio(1PM), Generic(1PM)

Task NA4.7.3: first version of application specific test suite (PM6).

Question importante: entre la tache précédente et celle-ci il y seulement deux mois qui sont Aout et Septembre, c'est à dire avec une disponibilité très reduite des personnes, pour ce qui est surement la tache la plus contraignante (codage). Je sais que cette tache pourra pour une part est commencée au sein de la tache précédente m'enfin cela m'inquiète quand meme un peu

Effort : CNRS (2PM), CSSI(4PM)

Task NA4.7.4: debugging and improvement of application specific test suite (PM12)

Effort : CNRS (6PM), CSSI(12PM)

4.4.8. Task NA4.8 : Industry forum

Month start : PM0, Month end : PM12

NA4 groups involved : NA4 coord, CSSA

Task NA4.8.1 : formal set-up of the industry forum (PM3)

Task NA4.8.2 : contribution of the industry forum to the first review (PM9)

Output : meetings, reports, creation of working groups (business models, technology track) , meeting of the industry forum (connected to project conferences), contribution to dissemination events

4.5. SUMMARY

Task	Task Title	Partners	Month Start	Month End	Allocated Total effort	Task explanation & comments
			M	M	PM	
	Activity NA4					
Tx.NA4.1	Consolidation of the existing requirements		1	1	4	1PM CNRS (bio) + 1PM CERN (hep) + 1PM(generic) + 1PM CNRS (coord.)
Tx.NA4.2	Basic foundations of common application interface and associated roadmap		1	3	21	8PM CNRS (coor) + 4PM CNRS(bio) + 5PM CERN (HEP) +3PM INFN (generic) + 1PM UPV/CSIC (Bio)
Tx NA4.2.1	Basic foundations of common application interface	Coord. + HEP + Biomed + Generic	1	3	16	6PM CNRS(coor), 3PM CNRS(bio), 4PM CERN (hep), 2PM generic(INFN) + 1PM UPV/CSIC (bio)

Tx. NA4.2.2	Writing of deliverable DNA4.1	Coord. + HEP + Biomed + Generic	2	3	5	2PM CNRS (coord.), 1PM CNRS (bio), 1PM CERN(hep),1PM INFN (generic)
Tx NA4.3	Definition of the strategy for application integration and deployment	Coord. + HEP + Biomed + Generic	1	6	28	7PM CNRS(coord) + 8PM INFN(generic) + 3PM UNEDI(NA3 liaison) + 5PM CERN(HEP) + 4PM CNRS(bio) + 1PM UPV/CSIC(bio)
Tx NA4.3.1	Planning for HEP and Biomed	Coord. + HEP + Biomed	1	3	9	1PM CNRS(coord), 3PM CNRS(bio), 4PM CERN(hep) + 1PM UPV/CSIC (bio)
Tx NA4.3.2	Definition of strategy for generic applications	Coord. + NA3 Liaison + Generic	1	6	12	6PM INFN(generic) + 3PM CNRS(coord.) + 3PM UNEDI (NA3 liaison)
Tx NA4.3.3	First set-up of the selection process	Coord + Generic	1	1	2	1PM INFN(generic) + 1PM CNRS(coord.)
Tx NA4.3.4	Writing of deliverable DNA4.2	Coord.+Generic	4	6	5	2PM CNRS (coord.) + 1PM INFN (generic) + 1PM CNRS(bio) + 1PM CERN(HEP)
Tx.NA4.4	Migration of first applications to EGEE infrastructure		1	12	231	6pm CNRS (coord) + 4pm CERN (HEP) + 6pm CNRS (biomed) + 141pm (HEP) + 78pm (biomed) +1pm(UPV/CSIC)+ 2pm UNEDI (NA3 liaison)
Tx NA4.4.1	Selection of current application portfolio	HEP + biomed + coord	1	2	4	1PM CERN (HEP) + 2PM CNRS (biomed) + 1PM CNRS (coord.)
Tx NA4.4.2	Migration of the first pilot applications	HEP + biomed + coord	1	12	224	3PM CNRS(coord.) + 2PM UNEDI (NA3 liaison) + 141PM (HEP) + 78PM (bio)
Tx NA4.4.3	Writing of the part of deliverable DNA4.3 concerning HEP et Biomed	HEP + biomed + coord	8	9	3	1PM CERN (HEP) + 1PM CNRS (bio) + 2PM CNRS (coord.)
Tx.NA4.5	Deployment of first generic applications	Generic + Coord	1	12	116	18pm INFN (generic) + 11pm CNRS (coord) + 7pm UNEDI (NA3 liaison) + 80pm (Generic)
Tx NA4.5.1	Selection of one or two generic applications	Generic + coord	1	1	2	1PM INFN (generic) + 1PM CNRS (coord.)
Tx NA4.5.2	Preparation of application deployment	Generic + coord	2	3	10	6PM INFN(generic) + 2PM CNRS (coord.) + 2PM UNEDI (NA3 liaison)
Tx NA4.5.3	Migration of first generic applications	Generic + coord + NA3 liaison	3	12	57	3PM INFN (Generic) + 2PM CNRS (coord) + 2PM UNEDI (NA3 liaison) + 55PM(generic)
Tx NA4.5.4	Selection of one or two more generic applications	Generic + coord	6	7	2	1PM INFN (generic) + 1PM CNRS (coord.)
Tx NA4.5.5	Second preparation of application deployment	Generic + coord	8	9	5	3PM INFN(generic) + 1PM CNRS (coord.) + 1PM UNEDI (NA3 liaison)
Tx NA4.5.6	Migration of second round of generic applications	Generic + coord + NA3 liaison	10	12	27	3PM INFN(Generic) + 2PM CNRS (coord) + 2PM UNEDI (NA3 liaison) + 25PM(generic)
Tx NA4.5.7	Writing of the part of deliverable DNA4.3 concerning generic applications	Generic + coord	8	9	3	1PM INFN(generic) + 2PM CNRS (coord.)
Tx NA4.6	NA4 management	Coord + CNRS + CERN + INFN	1	12	21	12PM CNRS (coord) + 3PM CNRS (bio) + 3PM CERN (HEP) + 3PM INFN (generic)
Tx NA4.7	Test suite	all	1	12	39	12PM CNRS(test team) + 24PM CSSI + 1PM CNRS(bio) + 1PM CERN(HEP) + 1PM INFN(generic)
Tx NA4.7.1	consolidation of existing test suites	CNRS + CSS	1	1	3	1PM CNRS + 2PM CSSI
Tx NA4.7.2	definition of application specific test suites	CNRS + CSSI + CERN + CNRS + INFN	2	4	12	3PM CNRS + 6PM CSSI + 1PM HEP + 1PM CNRS (Bio),+ 1PM INFN (Generic)
Tx NA4.7.3	first version of application specific test suite	CNRS + CSSI	5	6	6	2PM CNRS + 4PM CSSI
Tx NA4.7.4	Debugging and improvement of application specific test suite	CNRS + CSSI	7	12	18	6PM CNRS + 12PM CSSI

Tx NA4.8	Industry forum	Coord + CSSA	0	12	14	
Tx 4.8.1	Formal set-up of the industry forum	Coord + CSSA	0	3	4	1pm CNRS (coor) + 3pm (CSSA)
Tx 4.8.2	Contribution of the industry forum to the first review	Coord + CSSA	3	9	10	1pm CNRS (coor) + 9pm(CSSA)
Total effort (PM)					481	

Task number	HEP	Biomed	Generic	Test/NA3 liaison/CSSA	Coordination	Total
Tx NA4.1	CERN (1PM)	CNRS(1PM)	INFN(1PM)		CNRS(1PM)	4PM
Tx NA4.2	CERN (5PM)	CNRS(4PM) UPV/CSIC (1PM)	INFN(3PM)		CNRS(8PM)	21PM
Tx NA4.3	CERN (5PM)	CNRS(4PM) UPV/CSIC (1PM)	INFN(8PM)	UNEDI(3PM)	CNRS(7PM)	28PM
Tx NA4.4	CERN (4PM) +HEP (141PM)	CNRS(6PM) +UPV/CSIC (1PM) + bio (78PM)		UNEDI(2PM)	CNRS(6PM)	238PM
Tx NA4.5			INFN(18PM)+generic (80PM)	UNEDI(7PM)	CNRS(11PM)	116PM
Tx NA4.6	CERN (3PM)	CNRS(3PM)	INFN(3PM)		CNRS(12PM)	21PM
Tx NA4.7	CERN (1PM)	CNRS (1PM)	INFN (1PM)	CNRS(12PM) CSSI (24PM)		39PM
Tx NA4.8				CSSA(12PM)	CNRS (2PM)	14PM
TOTAL	CERN (19PM) + 141PM for application migration =160PM	CNRS (19PM) + UPV/CSIC (3PM) + 78PM for application migration =100PM	INFN(34PM) + 80PM for application migration = 114PM	UNEDI(12PM)) CNRS(12PM) CSSI(24PM) CSSA(12PM) = 60PM	CNRS(47PM)	481PM

Effort in PM	Task	Task	Task	Task	Task	Task	Task	Task	Total
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	NA4.1	NA4.2	NA4.3	NA4.4	NA4.5	NA4.6	NA4.7	NA4.8	
NA4 coordination	1	8	7	6	11	12	0	2	47/48
HEP	1	5	5	145	0	3	1	0	160/160,8
Bio	1	5	5	85	0	3	1	0	100/100,8
Generic	1	3	8	0	98	3	1	0	114/120
NA3 liaison	0	0	3	2	7	0	0	0	12/12
Testing team	0	0	0	0	0	0	36	0	36/36
CS SA	0	0	0	0	0	0	0	12	12/24
Total	4	21	28	238	116	21	39	14	481/499,6

4.6. STAFFING AND RESOURCE PLAN FOR THE FIRST YEAR

In order to follow the hiring of the resources needed, the following table will be updated from now and the deviation will be reported to the PEB meeting.

The PM total effort must correspond to the TA effort expressed in PM for the first year.

Note: Please use Last name then First name.

4.6.1. NA4 coordination

Collaborator name	Partner	Status	Function	Provisional date in Month 1 to 12	FTE (1=full time, 0.5 half time,...)	F or UF
Breton V.	CNRS		Activity management	1	0.75	UF
Total effort						
Effort from the TA						
Deviation						

4.6.2. HEP applications

Collaborator name	Partner	Status	Function	Provisional date in Month 1 to 12	FTE (1=full time, 0.5 half time,...)	F or UF
Harris F.	CERN		HEP management	1	1	UF
Total effort						
Effort from the TA						
Deviation						

4.6.3. Biomedical applications

Collaborator name	Partner	Status	Function	Provisional date in Month 1 to 12	FTE (1=full time, 0.5 half time,...)	F or UF
Legre Y.	CNRS	Engineer	Loose cannon – VO management	1	0.5	F
Thiam C.	CNRS	PhD student	Application deployment	1	0.5	UF
Maigne L.	CNRS	PhD student	Application deployment	1	0.75	UF
Montagnat J.	CNRS	Researcher	Activity Management, Application deployment	1	0.5	UF
Bellet F.	CNRS	Engineer	Application deployment	1	0.25	UF
Benoit-Cattin H.	CNRS	Assistant Professor	Application deployment	1	0.15	UF
Duque H.	CNRS	PhD student	Application deployment	1	1	UF
Germain-Renaud C.	CNRS	Assistant-professor	Application deployment	1	0.25	UF
X (to hire)	CNRS	Engineer	Loose cannon, application deployment	1	1	F
X (to hire)	CNRS	Engineer	Loose cannon, application deployment	1	1	F
Jose R. Valverde	CNB/CSIC	Head of IT Services	Activity Management		0.25	
Sonia de Diego	CNB/CSIC	Systems Manager	Migration and Support		0.25	
Enrique de Andres	CNB/CSIC	Engineer	Migration and Support		0.5	
David Garcia	CNB/CSIC	Engineer	Migration and Support		0.5	
Hernandez V.	UPV	Full Professor (CU)	Activity Management/Identification		0.65	
Llorens J.	UPV	Full Professor (CU)	Identification/Migration and Support		0.65	
Vidal V.	UPV	Professor (TU)	Migration and Support		0.5	

Total effort						
Effort from the TA						
Deviation						

4.6.4. Generic applications

Collaborator name	Partner	Status	Function	Provisional date in Month 1 to 12	FTE (1=full time, 0.5 half time,...)	F or UF
Barbera R.	INFN		Generic applications manager	1	0.5	UF
Andronico G.	INFN			1	0,25	UF
Caltroni A.	INFN			1	0,25	UF
Ferro E.	INFN			1	0.25	UF
Ferraro R.	INFN			1	0.25	UF
Michelotto M.	INFN			1	0.25	UF
Platania G.	INFN			1	0.25	UF
Total effort						
Effort from the TA						
Deviation						

4.6.5. Test team/NA3 liaison/Industry forum

Collaborator name	Partner	Status	Function	Provisional date in Month 1 to 12	FTE (1=full time, 0.5 half time,...)	F or UF
E. Fede	CNRS		Test team	1	1	F
Total effort						

Effort from the TA						
Deviation						

4.7. TRAINING PLAN

This section will present the training planned for the member of each activity.

4.8. INITIAL RISKS ASSESSMENT

4.8.1. External » risks (+++)

- Lousy middleware
- Flaky infrastructure

4.8.2. « Internal » Risks

- HEP: Bad integration with LCG and/or experiments
- Bio : failure to form the core of a community
- Generic : not sufficiently attractive, or not sufficiently selective
- Insufficient Feedback quality or not taken into account
- Insufficient partner involvement and/or integration

4.8.3. « Strategic » risks

- EGEE too HEP-centric

4.9. INITIAL QUALITY TARGET INDICATORS

NA4 activity has to be monitored during the project lifetime in terms of impact on user communities. This impact has to be measured qualitatively and quantitatively. The following tools are needed to quantify user activity on the infrastructure:

- Number of virtual organizations
- Number of users in each virtual organization
- Number of nodes accessible to each virtual organization
- CPU and storage resources available to each virtual organization
- CPU and storage resources used per virtual organization

The following tools are needed to monitor the quality of services on the infrastructure:

- Sites availability
- Success rate of job submission

4.10. TIMELINE WITH GANTT CHART

