

Project Number: **034702**  
 Project Acronym: **BEinGRID**  
 Project Title: **Business Experiments in Grid**  
 Instrument: **Integrated Project**  
 Thematic Priority: **Advanced Grid Technologies, Systems and Services**

## D5.3.5-R2 – Periodic 6 Monthly Releases From Month 12

*Activity 5: Toolset repository building*

*WP 5.3: Repository releases, documentation and maintenance*

<b>Due Date:</b>	M18	
<b>Submission Date:</b>	12/12/2007	
<b>Start Date of Project:</b>	01/06/2006	
<b>Duration of Project:</b>	42 months	
<b>Organisation Responsible for the Deliverable:</b>	HLRS	
<b>Version:</b>	1.0	
<b>Status</b>	Final	
<b>Author(s):</b>	René Heek	HLRS
<b>Reviewer(s)</b>	Melanie Biette Gautier Dallons	ATOS CETIC

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Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)		
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## Version History

<b>Version</b>	<b>Date</b>	<b>Comments, Changes, Status</b>	<b>Authors, contributors, reviewers</b>
0.1	28/11/2007	Initial draft	René Heek (HLRS)
0.2	29/11/2007	Added information wget; major content input	Eugen Volk (HLRS), René Heek (HLRS)
0.3	11/12/2007	Added Technical Changes to the repository section, reviewed the document, added comments	Yona Raekow (Fraunhofer SCAI)
1.0	12/12/2207	Minor changes according to internal reviewer comments (e.g. added exact dates to the wget measurement)	Yona Raekow (SCAI), René Heek (HLRS)
1.1	13/12/2007	Changes according to reviewer comments	Melanie Biette (ATOS), Gautier Dallons (CETIC) René Heek (HLRS)

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## 1. Executive summary

The following document is an updated version of the first D5.3.5-R1 of this series of deliverables. Its main objective is to provide an inventory report, updated regularly. Spoken in a figurative language, it represents a sort of a “captain’s logbook”.

The main changes in terms of content of Gridipedia are the component descriptions, related documentation like common technical requirements, common capabilities, and design patterns. In terms of business related content, many new websites have been added.

Apart from these changes, some new features regarding quality guarantee and measurement have been implemented. This document is heavily related to another series of internal documents whose main objective is the identification of candidate items. One quality measurement aspect is the review of up taken candidate items. The ratio between rejected and approved candidate items might become a good measure of the quality of proposed input.

There is a need to have frequent inventory reports for two reasons first for quality purposes, second for documentation updates and quality of the content of the repository. The documentation aspect fulfilled by this document relates to the idea of having regular inventory reports. These reports are not considered as backup solution, in a sense of restoring lost content in case of heavy system breakdowns, but the content structure and its description are considered part of the main values of Gridipedia. Another new aspect will be the introduction of a population measurement with wget. This tool allows downloading entire website. The size of regularly created, packed archives will be a measure for the size of Gridipedia.

The title of this document was changed internally from “Periodic 6 monthly releases from month 12” to “Repository Releases – Inventory Report” which reflects more accurately the current purpose of this document.

## 2. Introduction

The document is structured as follows:

The following section 3 is related to the inventory report (management change). Section 4 gives a brief report on the usage of the Gridipedia websites. Section 5 explains the wget tool and provides some initially gathered data on the amount of content on Gridipedia. Annex A contains the BEinGRID License conditions and finally, Annex B provides a full list of accepted candidate items.

### 2.1 Purpose

The purposes of this deliverable template are as follows:

- Inventory Report for Release 2 (PM18)
- Evaluation Report on candidate items
- Usage Report with webalizer statistics
- Introduction of population measurement

### 2.2 References

- [1] D5.3.5-R1 Periodic 6 monthly releases from month 12, Deliverable of the BEinGRID Project, Public
- [2] ID5.1.2 Updated version of the Process for contributing to the BEinGRID Repository, Internal Report of BEinGRID project, Confidential
- [3] ID5.1.3 List of Candidate Items, Internal Report of BEinGRID project, Confidential
- [4] AWStats Website, <http://awstats.sourceforge.net/>

### 2.3 Glossary of Acronyms

Acronym	Definition
BEinGRID	Business Experiments in Grid
CC	Common Capabilities
CTR	Common Technical Requirements
D	Deliverable
DRS	Document Review Sheet
DP	Design Patterns
EC	European Commission
PM	Project Manager
PO	Project Officer
TS	Technical Solution
WP	Work Package

### 3. Inventory Report of the Public Gridipedia Workspace

#### 3.1 Coarse-Grain Comparison with First Release (PM12)

The previous release was an initial version of the Public Gridipedia Workspace. The main weakness of this release was clearly a lack of content, which ended in a vague structure and generic information.

The following main menus have been available:

Section	Description	Status (PM12)
HOME	Generic description of Gridipedia and BEinGRID. Copy from newsletter.	Draft, copy
GRID MIDDLEWARE	Information about existing Grid Middleware	Categories, some content (links)
EXISTING GRIDS	List of Links to known Grids	OK
GRID BUSINESS	Market analysis, market watches, legal perspectives, business models etc.	Not filled
TECHNICAL SOLUTIONS	(intended) Act1 CTR, CC, DP and components	Not filled, few pages
ABOUT THE REPOSITORY	Brief description of the (whole) repository	Unknown
FAQ	Frequently asked questions	Content, but without “real” FAQ
LINKS	Links to Grid Middleware, projects and news	OK
INTERNAL	Only for registered users	No content

Table 1: Main Menus of PGW (R1, PM12)

This menu below shows the new content, which has been delivered by the BEinGRID Project:

Section	Description/Major Changes	Status (PM 18)
HOME	Page was rewritten. Explicit mentioning of BEinGRID was removed.	Basic information, OK
TECHNICAL SOLUTIONS	The TS section was filled with the description of CTR, CC, DP and component descriptions.	Completed (Act1), open for external contributions, OK
GRID BUSINESS	Subsite on various business aspects (e.g. market studies, legal aspects)	Basic input of Act2, OK
ANNOUNCEMENTS*	Two announcements are in place.	Weak, need for continuous maintenance

GRID MIDDLEWARE	Continuously added new links to middleware.	Still growing, OK
EXISTING GRIDS	List of existing Grids	Still growing, OK
GRID LINKS	List of various Grid-related links	OK
PUBLICATIONS*	This new section allows the publication or linkage of technical or business oriented papers.	Not enough publications
FEEDBACK*	The new feedback form allows external contributor to give some feedback or to suggest new content/candidate items.	OK, submission form will be complete

Table 2: Main Menus of PGW (R2, PM18), \* new section

### 3.2 Evaluation Report on Candidate Items

Most of the suggested candidate items came directly out of BEinGRID Project. They have been considered as mature enough for publication and none of the proposed candidate items was rejected so far.

### 3.3 Technical Changes to the Repository

Some technical changes have been made to improve the usage and sustainability of the repository. The main technical changes are listed below:

#### Digital assets management

Digital assets management (DAM) is an alternative method for organising and accessing files. DAM replaces the default File-Module and provides new methods of working and new applications. In particular, the DAM facilitates dealing with large file archives as they are foreseen in Gridipedia.

DAM is used to attach meta-data to pictures, documents and other digital assets that enrich the Gridipedia website. The installation of the digital assets management has no impact to the frontend of the Gridipedia webpage. It is only used to manage files in the backend. However, it provides an interface for several extensions available for frontend and backend that need to make use of files and corresponding meta data.

#### News

Extension for displaying and managing news was installed (tt\_news extension). This extension is already used in the www.beingrid.eu website and can be deployed in Gridipedia if there is a need to publish news on a regular basis.

#### RSS Feeds

An extension was set up to receive the most important news as RSS feeds.

### **Mailform**

The extension th\_mailform was installed. It is used to create mailforms that will serve as an interface between outside contributors and the moderator committee.

### **Front-end editing**

Front-end editing is configured, so that users can easily correct small typos and are not bothered by the complexity of the full Typo3 system.

## 4. Usage Report

The statistics for: <http://www.gridipedia.eu> are available at <http://www.gridipedia.eu/awstats/awstats.pl?config=www.gridipedia.eu>. The monthly report for Nov 07 is shown in Figure 1. The log-file analyzer *awstats* [4] was used for creating the reports.

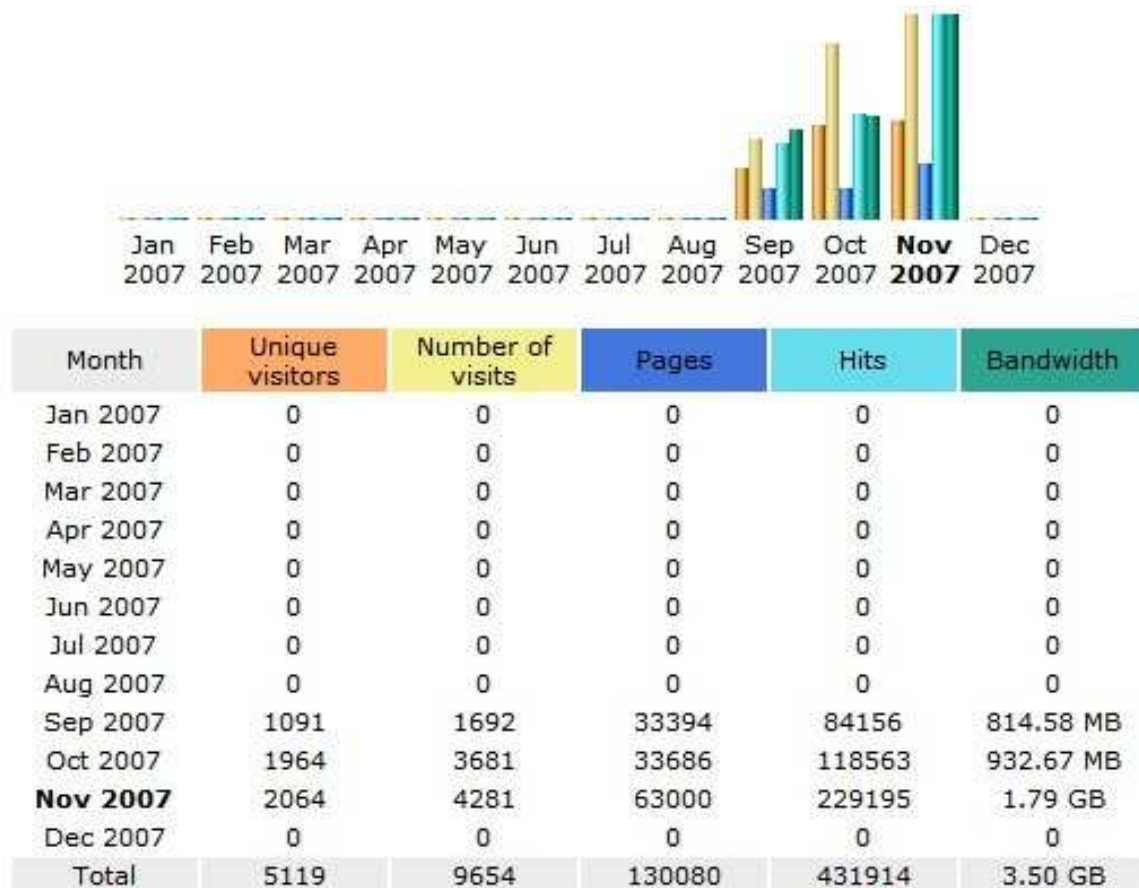


Figure 1: *awstats* Monthly Report for November 07, 29/11/2007

The Gridipedia website was announced its opening on 26<sup>th</sup> of September 2007 during the European Services, Software and Grid Technology Days 07 in Brussels. A brief evaluation of the numbers – especially the number of unique visitors – allows the conclusion, that there is an increasing interest in Gridipedia. However, after only three months – whereby the month of September cannot be taken fully into account – a reliable prediction on the general interest in Gridipedia cannot be made yet.

The numbers of visits, pages, hits, and bandwidth do not allow a clear conclusion on the success of Gridipedia at this point of time. For instance, some of the bandwidth is used or will be used by the *wget* tool, which is described later on. Similar examples for the previously mentioned indicators can be found very easily.

The tool *awstats* was announced as implemented and running on 26<sup>th</sup> of September 2007. The tool gathered statistics starting September 2007. Those earlier log files are available, but they have not evaluated and included in the report yet.

## 5. Population Measurement

The content of Gridipedia grows continuously. In order to show the progress of increasing content in Gridipedia between releases, one can measure the content size of all Gridipedia sites. *GNU wget* is a tool for downloading all files from a given URL <http://www.gridipedia.eu> to a local directory.

The first measurement was done on 29<sup>th</sup> of November 2007. These measurements will be repeated on a monthly basis.

### 5.1 GNU wget

*GNU wget* is a free utility for non-interactive download of files from the Web. It supports http, https, and ftp protocols, as well as retrieval through http proxies. The current version of GNU wget is 1.10.2. The source code of GNU wget can be downloaded from the project site <http://www.gnu.org/software/wget/>. Binaries for windows can be downloaded from <http://gnuwin32.sourceforge.net/packages/wget.htm> or <http://www.christopherlewis.com/WGet/wget-1.10.2b.zip>.

In general, wget is very simple to invoke. The basic syntax is:

```
wget [option] [URL] ...
```

The full command line used for downloading Gridipedia was:

```
wget -p -k -rH -Dgridipedia.eu www.gridipedia.eu
```

In the following, the options used for the download are described briefly by the main page of wget (<http://www.gnu.org/software/wget/manual/wget.html>):

- **-p: --page-requisites:** This option causes wget to download all the files that are necessary to properly display a given html page. This includes such things as inlined images, sounds, and referenced stylesheets.
- **-k: --convert-links:** After the download is complete, it converts the links in the document to make them suitable for local viewing. This affects not only the visible hyperlinks, but also any part of the document that links to external content, such as embedded images, links to style sheets, hyperlinks to non-html content, etc.
- **-rH:** The -H option turns on host spanning, thus allowing wget's recursive run to visit any host referenced by a link. Unless sufficient recursion-limiting criteria are applied depth, these foreign hosts will typically link to yet more hosts, and so on until Wget ends up using up much more data than you have intended.
- **-D:** The -D option allows to specify the domains that will be followed, thus limiting the recursion only to the hosts that belong to these domains.

The downloaded pages can be found in the directory "www.gridipedia.eu". In order to check whether all Gridipedia related sites have been downloaded, the safari browser (<http://www.apple.com/safari/>) can be used. Other browsers like firefox or internet explorer have problems with browsing through the local copy. They are able to show only local sites

ending with “.html” as HTML-site.

## 5.2 Results of measurements

The results of the measurement for month 18 are:

565 Gridipedia files have a total size of 6.172.139 Bytes uncompressed and 3.629.044 Bytes compressed (with Winzip). Retrieved: 29/11/2007, 14:33h

The total number of files is a good indicator of the number of relevant webpages. The compressed size is taken as indicator for the amount of information on Gridipedia in general.

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## Annex B. List of Accepted Candidate Items

### B.1 Introduction

D5.3.5-R1 proposed the following table for describing software components, which will be uploaded to Gridipedia.

Component Name	Version	Date	Responsible Person
CompXY	Business Experiment	21/06/2007	Mr. X

*Table 3: Metadata Schema for Software Components*

A slightly modified version of this table will be used for reporting candidate items in general. Candidate items are reported here only if they are published on Gridipedia. This inventory report is closely related to the list of candidate items in ID5.1.3 [2], which lists all suggested candidate items (e.g. description of design patterns from Activity1) for a certain timeframe. Rejected or pending candidate items are those, which are listed in ID5.1.3 but not in this document.

### B.2 Activity1 Items

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Fast Transfer of Large Files	CTR	Sep. 07	Craig Thomson
Accessing Data from Different Locations	CTR	Sep. 07	Craig Thomson
Accessing Heterogeneous Data	CTR	Sep. 07	Craig Thomson
Replication of Data for Speed and Robustness	CTR	Sep. 07	Craig Thomson
Federate a Number of Data Sources	CTR	Sep. 07	Craig Thomson
Avoid Transferring Data	CC	Sep. 07	Craig Thomson
Access to a Remote Data Source	CC	Sep. 07	Craig Thomson
Homogenise Data Sources	CC	Sep. 07	Craig Thomson
Synchronise Multiple Data Sources	CC	Sep. 07	Craig Thomson
Treat Multiple Data Sources as One	CC	Sep. 07	Craig Thomson
Data Source Publisher Pattern	DP	Sep. 07	Craig Thomson
Query Translator Pattern	DP	Sep. 07	Craig Thomson

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Primary-Secondary Replicator Pattern	DP	Sep. 07	Craig Thomson
Data Federation Pattern	DP	Sep. 07	Craig Thomson
OGSA-DAI Trigger Mechanism	Component	Nov. 07	Craig Thomson
OGSA-DAI Data Publisher	Component	Nov. 07	Craig Thomson
OGSA-DAI JDBC Driver	Component	Nov. 07	Craig Thomson
OGSA-DAI Query Translator	Component	Nov. 07	Craig Thomson
Gridfication of currently used Licence Management systems	CTR	Sep. 07	Christian Simmendinger
Limited LSP capability	CTR	Sep. 07	Christian Simmendinger
Grid Licence Models	CTR	Sep. 07	Christian Simmendinger
LM related Extension of Job Description and Submission	CC	Sep. 07	Christian Simmendinger
Licence Management related Authorization	CC	Sep. 07	Christian Simmendinger
Licence Management related Scheduler Extension	CC	Sep. 07	Christian Simmendinger
Licence Management related Resource Management Extension	CC	Sep. 07	Christian Simmendinger
Licence Proxy	CC	Sep. 07	Christian Simmendinger
Licence Management related Billing and Accounting	CC	Sep. 07	Christian Simmendinger
Encapsulation of Licence Server	CC	Sep. 07	Christian Simmendinger
Generic Licence Management Architecture	DP	Sep. 07	Christian Simmendinger
Resource Management based Proxy Pattern	DP	Sep. 07	Christian Simmendinger
LM-Architecture	Component	Nov. 07	Christian Simmendinger
LM-Proxy (1st Version)	Component	Nov. 07	Christian Simmendinger
LM-Proxy (2nd Version)	Component	Nov. 07	Christian Simmendinger
LM Job Submission for Unicore	Component	Nov. 07	Christian Simmendinger

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Trust and security through message level enforcement	CTR	Sep. 07	David Broussard
Adaptive Enforcement	CTR	Sep. 07	David Broussard
Distributed access control methodologies	CTR	Sep. 07	David Broussard
Data protection and Infrastructure security	CTR	Sep. 07	David Broussard
Secure Service Management	CTR	Sep. 07	David Broussard
Prove the Validity of Claims	CC	Sep. 07	David Broussard
Policy Based Access Control	CC	Sep. 07	David Broussard
Secure end-to-end Communication Within a Federation	CC	Sep. 07	David Broussard
Policy Engine	CC	Sep. 07	David Broussard
Connection Bridge	CC	Sep. 07	David Broussard
Security Update	CC	Sep. 07	David Broussard
Encryption Level Broker	CC	Sep. 07	David Broussard
Token Service Pattern	DP	Sep. 07	David Broussard
PDP Pattern	DP	Sep. 07	David Broussard
PEP Factory	DP	Sep. 07	David Broussard
Event Policy Control	DP	Sep. 07	David Broussard
End-to-end Security in a Federation Pattern	DP	Sep. 07	David Broussard
Third party trusted authentication	DP	Sep. 07	David Broussard
Connection Bridge	DP	Sep. 07	David Broussard
Security observer	DP	Sep. 07	David Broussard
Encryption level broker	DP	Sep. 07	David Broussard
PK Manager	DP	Sep. 07	David Broussard
Security Token Service	Component	Nov. 07	David Broussard
Policy Decision Point	Component	Nov. 07	David Broussard
Policy Enforcement Point	Component	Nov. 07	David Broussard
Public Key Manager	Component	Nov. 07	David Broussard
Connection Bridge	Component	Nov. 07	David Broussard
Security Observer	Component	Nov. 07	David Broussard
SLA template specification	CTR	Sep. 07	Igor Rosenberg
Publication & Discovery	CTR	Sep. 07	Igor Rosenberg

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Negotiation	CTR	Sep. 07	Igor Rosenberg
Provider Resource Optimisation	CTR	Sep. 07	Igor Rosenberg
Monitoring	CTR	Sep. 07	Igor Rosenberg
Re-negotiation	CTR	Sep. 07	Igor Rosenberg
Evaluation	CTR	Sep. 07	Igor Rosenberg
Accounting	CTR	Sep. 07	Igor Rosenberg
Optimisation of Resource Selection	CC	Sep. 07	Igor Rosenberg
Runtime Monitoring	CC	Sep. 07	Igor Rosenberg
Negotiation	CC	Sep. 07	Igor Rosenberg
Publication and Discovery	CC	Sep. 07	Igor Rosenberg
SLA Template	CC	Sep. 07	Igor Rosenberg
SLA Accounting	CC	Sep. 07	Igor Rosenberg
Optimisation of Resource Selection	DP	Sep. 07	Igor Rosenberg
Runtime Monitoring	DP	Sep. 07	Igor Rosenberg
Negotiation	DP	Sep. 07	Igor Rosenberg
SLA Accounting	DP	Sep. 07	Igor Rosenberg
SLA Negotiation	Component	Nov. 07	Igor Rosenberg
SLA Monitoring and Evaluation	Component	Nov. 07	Igor Rosenberg
Resource Selection Optimization	Component	Nov. 07	Igor Rosenberg
Portals Security	CTR	Sep. 07	Stathis Karanastasis
User management	CTR	Sep. 07	Stathis Karanastasis
Accounting	CTR	Sep. 07	Stathis Karanastasis
File management	CTR	Sep. 07	Stathis Karanastasis
Heterogeneous database access	CTR	Sep. 07	Stathis Karanastasis
Job submission	CTR	Sep. 07	Stathis Karanastasis
Job monitoring and control	CTR	Sep. 07	Stathis Karanastasis
Job visualization	CTR	Sep. 07	Stathis Karanastasis
Portals Security	CC	Sep. 07	Stathis Karanastasis
User Management	CC	Sep. 07	Stathis Karanastasis
Accounting	CC	Sep. 07	Stathis Karanastasis
File Management	CC	Sep. 07	Stathis Karanastasis
Database Access	CC	Sep. 07	Stathis Karanastasis

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Job Submission Monitoring and Control (JSMC)	CC	Sep. 07	Stathis Karanastasis
Job Visualisation	CC	Sep. 07	Stathis Karanastasis
Portals Security	DP	Sep. 07	Stathis Karanastasis
User Management	DP	Sep. 07	Stathis Karanastasis
Accounting	DP	Sep. 07	Stathis Karanastasis
File Management	DP	Sep. 07	Stathis Karanastasis
Database Access	DP	Sep. 07	Stathis Karanastasis
Job Submission Monitoring and Control (JSMC)	DP	Sep. 07	Stathis Karanastasis
Job Visualisation	DP	Sep. 07	Stathis Karanastasis
Portals Security	Component	Nov. 07	Stathis Karanastasis
Job Submission Monitoring and Control (JSMC)	Component	Nov. 07	Stathis Karanastasis
File Management	Component	Nov. 07	Stathis Karanastasis
User Management	Component	Nov. 07	Stathis Karanastasis
Virtualisation of Resources of the Hosting Environments	CTR	Sep. 07	Angelo Gaeta
Separation of Infrastructure Management Capabilities from Application Specific Ones	CTR	Sep. 07	Angelo Gaeta
Application Deployment	CTR	Sep. 07	Angelo Gaeta
Management of VO Policies	CTR	Sep. 07	Angelo Gaeta
Secure Federation	CTR	Sep. 07	Angelo Gaeta
Policies and Mechanisms for VO Membership and Authorisation	CTR	Sep. 07	Angelo Gaeta
Resource Annotation	CTR	Sep. 07	Angelo Gaeta
Automatic Resources/Services Discovery	CTR	Sep. 07	Angelo Gaeta
Creation of Instances on Distributed Hosting Environments	CC	Sep. 07	Angelo Gaeta
Application Virtualisation & Management	CC	Sep. 07	Angelo Gaeta
Secure Federation	CC	Sep. 07	Angelo Gaeta
Automatic Resource Discovery	CC	Sep. 07	Angelo Gaeta
VO Set-up	CC	Sep. 07	Angelo Gaeta
VHEFactory	DP	Sep. 07	Angelo Gaeta

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Application Virtualisation	DP	Sep. 07	Angelo Gaeta
Secure Federation	DP	Sep. 07	Angelo Gaeta
Automatic Discovery Façade	DP	Sep. 07	Angelo Gaeta
VO Set-up	DP	Sep. 07	Angelo Gaeta
VO Setup	Component	Nov. 07	Angelo Gaeta
Application Virtualization	Component	Nov. 07	Angelo Gaeta
Automatic Resource Discovery	Component	Nov. 07	Angelo Gaeta

Table 4: Activit1 Items

### B.3 Activity2 Items

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Players	Link Lists	Sep./Oct. 07	Daniel Field
Grid-related technology evolution	Website/Document (BEinGRID)	Sep. 07	
Where is Grid?	Website/Article (GridToday)	Sep. 07	
Market trends	Website (BEinGRID)	Nov. 07	Daniel Field
Grid adoption research service	Website/Article (GridToday)	Sep. 07	
Market Opportunities	Website/Article (BEinGRID)	Sep. 07	
A generic value chain for Grid	Article (BEinGRID)	Nov. 07	Daniel Field
Grid Value Chains & Networks by Sector	Website/Figures (BEinGRID)	Nov. 07	Daniel Field
Emerging Business Models	Website/Article (BEinGRID)	Nov. 07	Daniel Field
Application Service Provision	Website/Article (BEinGRID)	Nov. 07	Daniel Field
Mobile Grid Service Provision	Website/Article (BEinGRID)	Nov. 07	Daniel Field
Grid Resource Broker	Website/Short Article (BEinGRID)	Nov. 07	Daniel Field
Spreading the Grid	List of Events	Sep./oct.07	atos_ahtes
Intellectual property rights	Website/Article (BEinGRID)	Sep. 07	Daniel Field
Open Licenses compared	Website/Table (BEinGRID)	Sep. 07	Daniel Field

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Contractual Issues	Website/Article (BEinGRID)	Sep. 07	Daniel Field
Announcements	News	Jun. 07	Yona Raekow
Standardisation	Website	Nov. 07	Daniel Field
Publications	List of Publications (full-text&abstract)	Sep./Nov. 07	René Heek

Table 5: Activity2 Items

## B.4 Activity3 Items

Activity 3 has proposed a set of candidate items for Gridipedia, but currently none of them is published on Gridipedia. All processes on how candidate items are published are described in ID5.1.2 [2].

## B.5 Items of External Contributors

Name of Artefact	Type of Artefact	Submission Date	Responsible Person
Belgian GRID (BEgrid) <a href="http://www.begrid.be/">http://www.begrid.be/</a>	Link	Nov. 07	Christophe Ponsard cp@cetic.be
LV Grid and BalticGrid <a href="http://grid.lumii.lv/?lang=en">http://grid.lumii.lv/?lang=en</a>	Link	Nov. 07	Dana Ludviga dana@sigmanet.lv
ProActive/GCM Parallel Suite <a href="http://proactive.objectweb.org">http://proactive.objectweb.org</a>	Link	Oct. 07	Denis Caromel Denis.Caromel@sophia.inria.fr

Table 6: Items of External Contributors