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Activity 5: Toolset repository building

WP 5.3: Repository releases, documentation and maintenance

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RE	Restricted to a group specified by the consortium (including the Commission)	
CO	Confidential, only for members of the consortium (including the Commission)	

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Table of Contents

1. EXECUTIVE SUMMARY	6
2. INTRODUCTION	7
2.1 PURPOSE	7
2.2 REFERENCES	7
2.3 GLOSSARY OF ACRONYMS	7
3. CHANGES OF STRUCTURE CARRIED OUT ON GRIDIPEDIA	8
3.1 CHANGES REASONS	8
3.2 WAYS OF IMPLEMENTING THESE CHANGES	9
4. CONTENTS UPDATE	11
4.1 THE STRUCTURE CHANGE	11
4.2 CORSE-GRAIN COMPARISON WITH THIRD RELEASE (PM24)	12
4.3 EVALUATION REPORT ON CANDIDATE ITEMS	14
4.3.1 <i>What is a Candidate Item?</i>	14
4.3.2 <i>Published Candidate Item</i>	15
5. USAGE REPORT	17
5.1 UNIQUE VISITORS	17
5.2 NUMBER OF VISITS	18
5.3 NUMBER OF PAGES	19
5.4 VISIT DURATION	20
5.5 BACK-LINKS	21
6. POPULATION MEASUREMENT	23
6.1 RESULTS OF MEASUREMENTS	23
ANNEX A. LICENSE CONDITIONS.	24
ANNEX B. LIST OF ACCEPTED CANDIDATE ITEMS	27
ANNEX C. USED TOOL FOR MEASUREMENT	29

List of Figures

Figure 1: old Gridipedia design.....	8
Figure 2: new Gridipedia Design	9
Figure 3: The main changes of Gridipedia Structure.....	12
Figure 4: External vs Internal Candidate Item Published	15
Figure 5: Type of Published Artefact.....	16
Figure 6: Unique visitors performance	18
Figure 7: Total number of visits	19
Figure 8: Visited pages.....	20
Figure 9: Visit duration: number.....	21

Index of Tables

Table 1: Main Menus of PGW (R3, PM24) * new section	13
Table 2: Main Menus of PGW (R4, PM30), * new section	14
Table 3: Back links	22
Table 4: Metadata Schema for accepted Candidate Items	27

1. Executive summary

The following document is an updated version of the D5.3.5-R3[1] 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”.

Gridipedia aims to become an essential future reference point for the Grid industry in Europe. A source of information on applications of Grid related technology in business contexts, it will become a Grid meeting point, enabling individuals and organizations to offer, provide and use Grid technologies to meet their business needs.

Gridipedia started life as a humble repository storing the results of the BEinGRID project. To maximize its value to the wider community it is now time to open it to other sources of information, such as other EC projects. In addition we conceive that Gridipedia can go much further than just an information site.

In February 2008, there was a Gridipedia workshop, which led to the decision to redesign Gridipedia. This report summarises mainly all the decisions taken during this workshop. Consequently this report takes into account all the items discussed during the workshop and it explains how all these features were implemented.

The main change in Gridipedia was the new structure and design organisation. Some sections were completely reorganized. Additionally, a new design for the website was built. All these changes have been rolled out on: <http://www.gridipedia.eu/>.

Relating to the Gridipedia content, 21 candidate items were published in the period 05 2008 – 11 2008. These mainly result from BEinGRID activities and BEs, 10% of the candidate items were external contribution.

Relating to the statistics of Gridipedia for the previous months (August, September, October and the months from March to July 2008), the number of unique visitors is increasing slightly (13,3%), the unique visitor follows the same trends with an increase slope of 26%, the number of visited page has a small increase slope of 2,5% but in the last two months it had a remarkable jump. Finally, the average visit duration is about 5 minutes and a half.

As already noted in D5.3.5-R3[1], there is a need to have frequent inventory reports, first for quality purposes, second for documentation updates and content quality. 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.

2. Introduction

The document is structured as follows:

Section 3 is related to the main changes carried out on Gridipedia (due to the February 2008 meeting). This section explains the reasons of this structure change and explains the ways these changes were implemented.

Section 4 is related with the contents update. This section explains the new contents structure and presents the updated item. This section also presents the published candidate items.

Section 5 is a brief report on the usage of the Gridipedia website (unique visitors, number of visits, number of pages, visit duration, back-links). This section is mainly inspired by ID6.3.4.v1 First Quarterly Report.

Section 6 provides some initially gathered data on the amount of content on Gridipedia.

Annex A contains the BEinGRID License conditions.

Annex B provides a list of accepted candidate items from PM24 to PM30.

Annex C explains the wget tool.

2.1 Purpose

The purposes of this deliverable template are as follows:

- New structure and new design of Gridipedia.
- Inventory Report for Release 4 (PM30)
- Evaluation Report on candidate items
- Usage Report with webalizer statistics
- Population measurement

2.2 References

- [1] D5.3.5-R3 Periodic 6 monthly releases from month 18, Deliverable of the BEinGRID Project, Public
- [2] AWStats Website, <http://awstats.sourceforge.net/>

2.3 Glossary of Acronyms

Acronym	Definition
BEinGRID	Business Experiments in Grid
BE	Business Experiment
D	Deliverable
EC	European Commission
WP	Work Package

3. Changes Of Structure Carried Out On Gridipedia

This section shows and explains all the changes completed during the last 6 months (May 2008 to November 08) on Gridipedia. During this time big changes occurred in the structure and in the Gridipedia design. This section is divided into 2 sub sections:



- The first subsection explains the reasons which have led to these structure changes and design changes
- The second subsection explains how these changes have been carried out

3.1 Changes Reasons

Following the Barcelona workshop carried out in January 2008, involving members of activity 2 and the executive board, a need to further differentiate Gridipedia from BEinGRID was recognized. In addition the BEinGRID website had recently been redesigned to a much more modern and visually appealing site. This left Gridipedia with a noticeably outdated style (see Figure 1: old Gridipedia design). It was decided to provide Gridipedia with its own, unique, look and feel.



Figure 1: old Gridipedia design

Additionally, to make Gridipedia more modern and interactive, other design features were glimpsed: RSS feeds, tag clouds, various web 2.0 features, Flash video, animation and a blog were all considered.

Another important angle was search engine optimization. The existing structure of Gridipedia

was a linear structure with real content buried five to six layers (clicks) from the home page. This is suboptimal from the point of view of search engine ranking, where a maximum of four layers is recommended.

With a brief to provide the website with a modern and unique look-and-feel, an improved user experience and a search engine optimized design, a group of activity 5 members met in Sant Augustin, Germany, in February 2008.

Currently, the new design of Gridipedia is online. The figure below (see Figure 2: new Gridipedia Design) shows the current look of the site.



Figure 2: new Gridipedia Design

3.2 Ways of Implementing These Changes

The redesign of the Gridipedia website has been done in three steps.

First, a new design has been researched. It consisted of a specification of the target group, which are technicians as well as business professionals. To satisfy their very different information requirements, a structure has been selected with mainly two types of entry points: one for business and a few for technical content (i.e. Technical, Download, Contribute). Additionally, an announcement section has been integrated to the main page in order to bring actual Grid information to the visitors.

The technology for the implementation has not changed since all web pages of the project are hosted on a Typo3 server at Logica.

The second step was the development of the website layout. We changed the main menu from the left side to the top to gain precious space for the content. Flashing, flickering,

dropdown menus and other visual effects have not been used because they are not suited for the target group of business and technical professionals, which are more interested in getting content information in short time.

For the graphical representation a specific Gridipedia icon and a corresponding set of widgets have been developed. They are all kept in light green colour tones and are used to visualize significant information blocks like headers, menus, titles, frames, and delimiters.

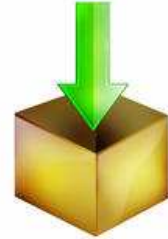
The layout then has been developed as HTML/CSS forms. The pages of the website are generated dynamically on user request by Typo3, based on so called templates. These have been developed by making use of several Typo3 extensions, which provide functionalities for specific content elements, like feedback forms and newsboxes.

After testing the new website in an implementation, which ran in parallel to the old design, the new design has been launched to production. After that, the content editors of the website have been supported to help them getting used to the new functionalities. Finally, several improvements on their requests, being filtered by Activity 5, had been done.

4. Contents Update

This section shows the major changes applied to the Gridipedia section. Due to the meeting in Sant Augustin (see Changes Reasons section, 3.1), new subsections will be presented to introduce these changes. This section will be organized this way:

- The first subsection (The Structure Change) will provide information about the Gridipedia structure change: Which sections have been added? Which sections have been deleted? Etc.
- The second section (Coarse-Grain Comparison with Third Release (PM24) will show the content evolution of the Gridipedia sections.
- Finally, the last section provides the information dealing with the Candidate Item publication (Evaluation Report on Candidate Items).



4.1 The Structure Change

The main changes have been summarized on the following figure (see below Figure 3: The main changes of Gridipedia Structure).

According to the figure we can list the following major actions

- The components wrongly listed under Grid Middleware are moved to "Solutions"
- The information on Grid Middleware becomes an article within the technical solutions section
- Technical Publications becomes "Publications" under "Technical articles" section
- The description of single grid related topics like "Data Management" was distributed in the old design across several pages, which described the Requirements, Capabilities and Design Patterns of selected topic. The new design provides description of a single topic with all aspects on a single page.
- The former "Component Access" section becomes "Download" section and can be accessed directly from the "Technical section"
- All the former sections relating to the download or description of components (from BEinGRID or external sources) were merged into the "Solutions" section. The navigation is so more structured.

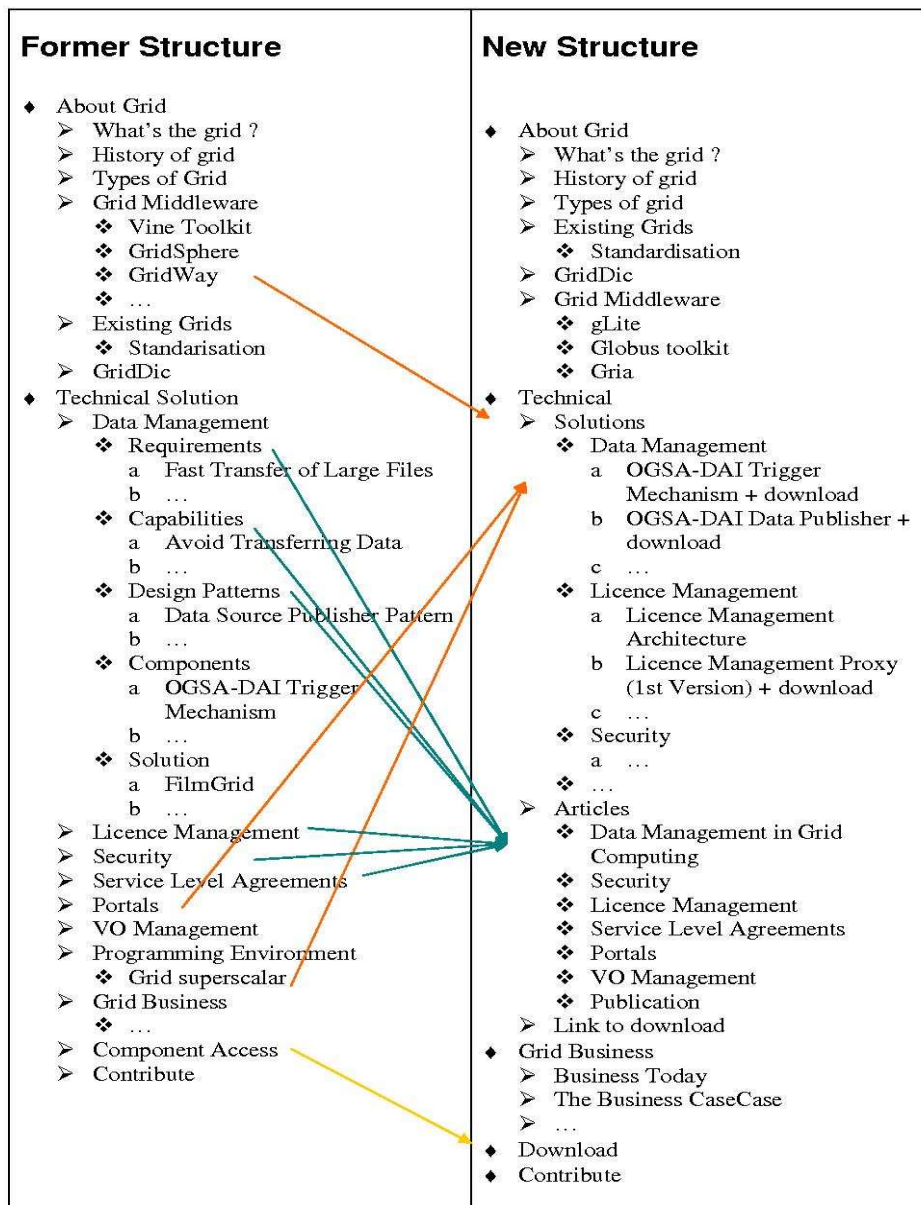


Figure 3: The main changes of Gridipedia Structure

4.2 Coarse-Grain Comparison with Third Release (PM24)

The previous release was the third version of the Public Gridipedia Workspace. The main change of this release was the new structure of the website and the complete reorganization of some sections (see The Structure Change).

The table below shows the coarse-content on Gridipedia from PM24, taken from D5.3.5-R3. So, it is a replication of the previous table (from the D5.3.5r3). Thanks to this replication it is easy to see the structure differences.

Section	Description/Major Changes	Status (PM 24)
HOME	General description of Gridipedia.	Basic information, OK

TECHNICAL SOLUTIONS	New subsection (“Programming Environment”) and new components descriptions were added.	Completed (Act1), open for external contributions, OK
GRID BUSINESS	Subsite on various business aspects; added subsite GridDic – the Grid Computing Glossary	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	Added new general section on 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, growing
FEEDBACK	The feedback form allows contributor to give some feedback	OK
CONTRIBUTION*	The new contribution form allows internal and external contributor to submit new content/candidate items.	OK, several contribution were submitted through the contribution form
SITEMAP*	Contains sitemap of Gridipedia pages	OK
COMPONENT ACCESS*	Contains registration form, which provides access to components.	Draft
WHAT IS THE GRID*	General Section describing the Grid concept.	Draft

Table 1: Main Menus of PGW (R3, PM24) * new section

The Table 2 shows the current content, which has been delivered by the BEinGRID Project.

Section	Description/Major Changes	Status (PM 30)
ABOUT GRID*	General description about the Grid (from old draft section “what is the grid”). Explanation of the BEinGRID project. This new section contains links to: the BEinGRID videos; “History of the grid”; “Classifications of Grid computing systems”; “Case studies of Grid solutions” and a link to the GridDic (the new grid dictionary).	GridDic must be extended.

TECHNICAL*	Information about technical information on Grid computing. The 2 subsections are the articles and the technical solutions.	OK still to be completed with BE inputs, open for external contributions
GRID BUSINESS	Section on various business aspects; added value chains and networks, legal issues, case studies, business today, business case for grid, business publication.	Not enough publications, need to enlarge image from chains and networks and add some comments; growing
DOWNLOAD*	New section providing the download for the component. Problem of NDA solved.	Ok, still growing
CONTRIBUTE	The new contribution form allows internal and external contributors to submit new content/candidate items.	OK
SITEMAP	Contains sitemap of Gridipedia pages	OK
FEEDBACK	The feedback form allows contributor to give some feedback	OK
GRID LINKS	List of various Grid-related links	OK
HOME	General description of Gridipedia.	Basic information, OK

Table 2: Main Menus of PGW (R4, PM30), * new section

4.3 Evaluation Report on Candidate Items

This section provides information about the published candidate items. Candidate items are the way to measure the published content on Gridipedia. Everything you see on Gridipedia is a candidate item.

4.3.1 What is a Candidate Item?

Candidate items are artefacts that have the potential to be added to Gridipedia. The sources of these artefacts are very wide. They can come from within the BEinGRID project, the worldwide Grid-community or any other source. Depending on the source of the artefact different procedures for apply to add the items to the repository.

4.3.1.1 Candidate items from BEinGRID

Candidate items from within the BEinGRID project can be submitted by a BEinGRID activity

or Business Experiment. The Gridipedia taskforce is responsible for filling the repository. In this light they will also have a role in chasing potential contributors to deliver candidate items. These are **Internal Candidate Items**.

4.3.1.2 Candidate items from outside BEinGRID

Candidate items from outside the BEinGRID project can be submitted by a BEinGRID partner or any other entity (person or organisation). Anybody who is interested in GRID technology is encouraged to deliver content to Gridipedia. This content will be evaluated by a moderator committee that consists of members from different activities in the BEinGRID project. In addition to this, the taskforce can add candidate items from external sources under their own initiative. These are **External Candidate Items**.

4.3.2 Published Candidate Item

Most of these suggested candidate items came directly out of BEinGRID project. They have been considered as mature enough for publication.

The list of accepted Candidate Items from PM24 to PM30 can be found in Annex B. During this period, 21 items were published. The following below graph shows their origin.

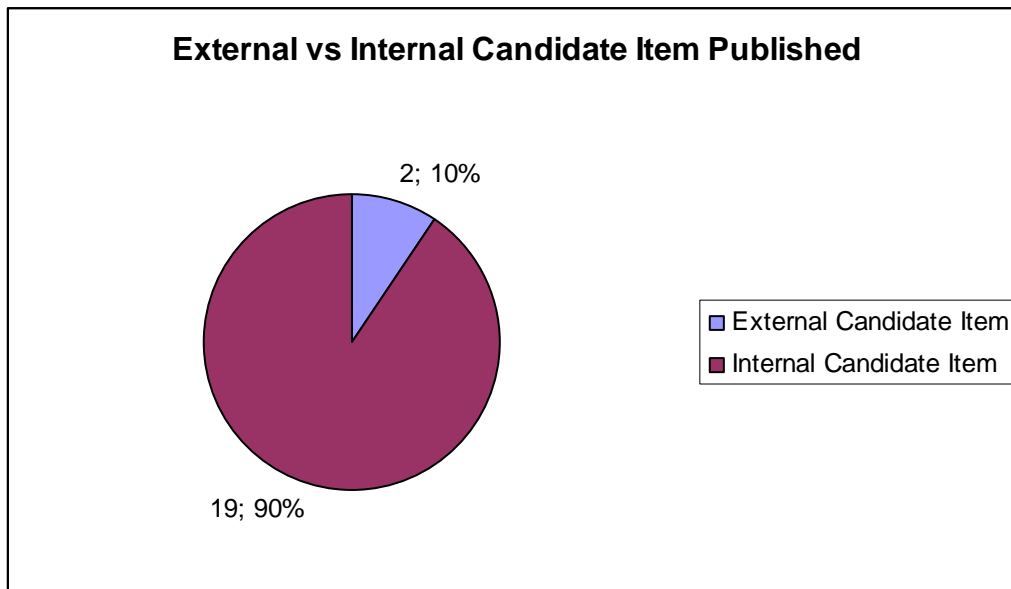


Figure 4: External vs Internal Candidate Item Published

The 21 published items are divided into 4 categories: Publication Item, Technical Item (Grid-related software), Middleware Items (computer software that connects software components or applications) and finally Other Items (e.g. a PowerPoint presentation, a video,...)

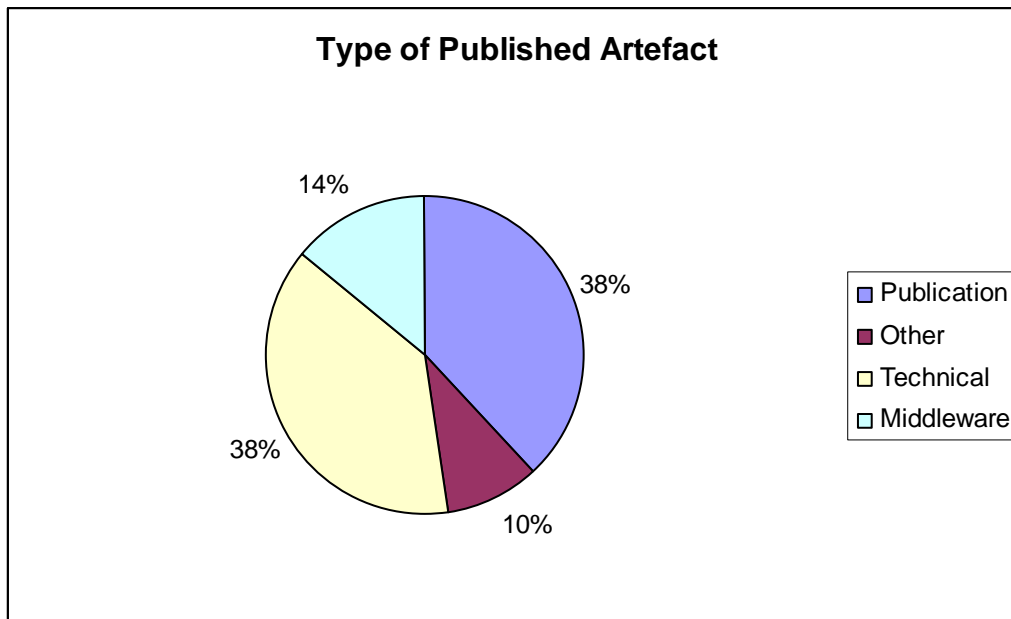


Figure 5: Type of Published Artefact

5. Usage Report

This section shows the statistics of Gridipedia for the following months: August, September and October 2008; the months from March to July are also referenced.

The first month taken into account is March 2008 because it is the first month with valid statistics (until February 2008 the statistics about Gridipedia are mixed with BEinGRID ones, thus they are not usable for this document).

The data used to finalize this section comes from several sources:

- appropriate web log analysis software, that, for the Gridipedia website, is AWSstats, a free tool that generates advanced statistics;
- Google, by the webmaster tools accessible via an account “Google Gmail”;
- direct search in blogs and news web sites;
- BEinGRID database of the Gridipedia Moderator Committee.

All these sources were previously used in ID6.3.4.v1 First Quarterly Report on Gridipedia use. The data on which the ID6.3.4.v1 was based came from the site statistics gathered by the web log analysis software AwStats (original data can be seen in the URL <http://www.gridipedia.eu/awstats/awstats.pl?config=www.gridipedia.eu>).

To analyse the data, ID6.3.4.v1 had taken three measurements:

- the “linear trend” using the ordinary least squares method.
- the month-on-month percentage change
- the “exponential trend” was calculated using an exponential interpolation method.

5.1 Unique Visitors

A unique visitor is a visitor (identified by its host) that has made at least one hit on one page of Gridipedia web site during the considered month; the hosts are identified by means of their IP number, thus if one person visits the site both from his home and his office computer, he is counted twice.

The following graph shows the behaviour of “unique visitors” from March to October 2008.

It can be seen that the linear trend (blue line) is globally positive (slope + 13,3%), and the increase of October (last measured month) compared to September is about +16,4%.

The exponential trend (red line) is far from convex despite the fall of July and August due to vacations. Probably the peak of June is due to the industry days.

The general trend on this period is consequently linear.

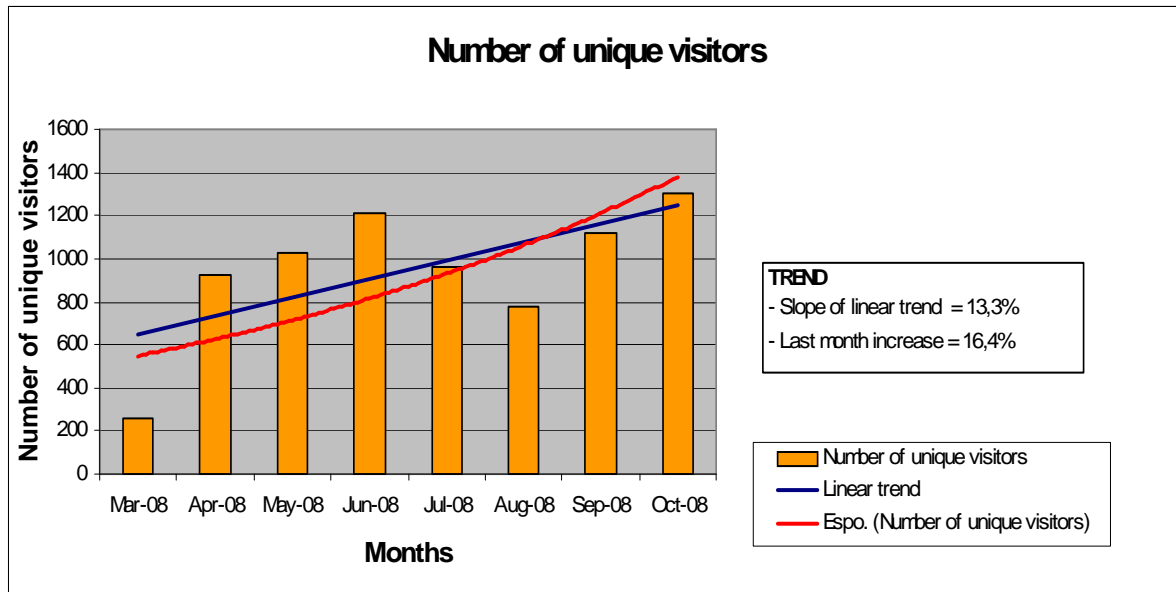


Figure 6: Unique visitors performance

5.2 Number of Visits

If one person visits Gridipedia more than once during the month, then she/he performs multiple visits. Two clicks in the same or different pages of the site are considered “only one visit” if they are performed in one hour; otherwise they are considered “two visits”.

This following graph shows the behaviour of the total number of visits in the considered period (March – October 2008).

In this case the linear and exponential trends are positive too (slope about 26% increasing) and it is confirmed in the last month (increase 29,7% compared to the previous month).

The exponential trend is very close from the linear trend. The general trend on this period is consequently linear.

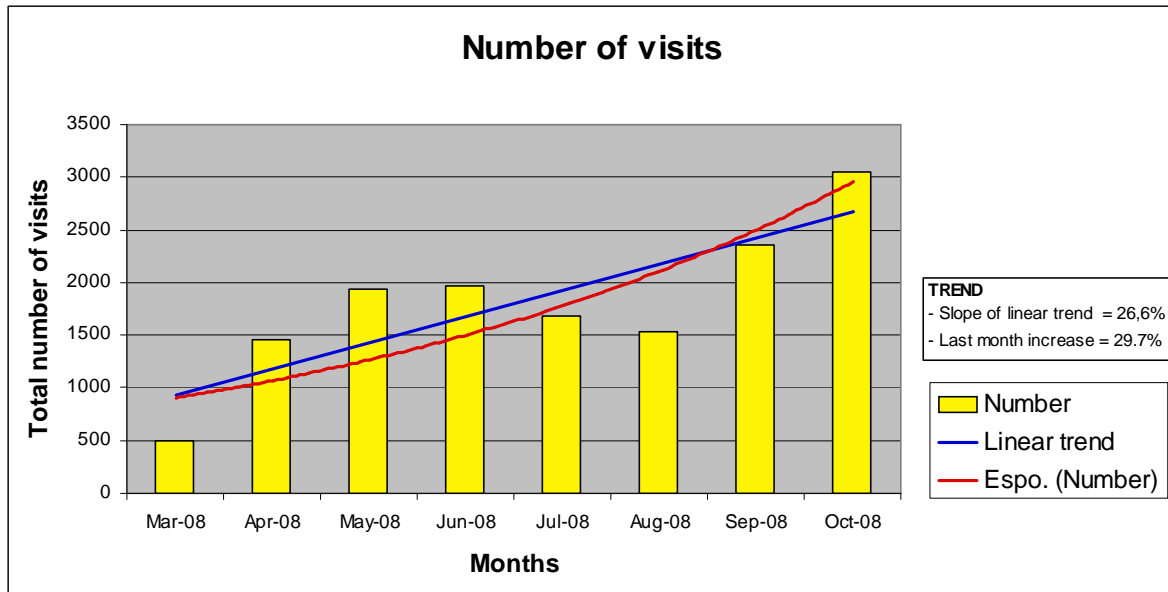


Figure 7: Total number of visits

Comparing the number of unique visitors and the number of visits shows that each visitor, on average, carries out about 2-3 visits each month and this number is almost constant during the time, but has been increasing slightly in the last four months. On the whole the behaviour of “unique visitors” and “number of visits” has been almost the same throughout the considered period.

5.3 Number of Pages

The following graph shows the total number of web pages visited in all the visits by all the visitors. Global linear trend (green line) is almost constant (slope increasing of 2,5%), but in the last two months it had a remarkable jump (October is increased by 195% compared with September). The exponential trend (red line) is almost a straight line and confirms what the linear trend means.

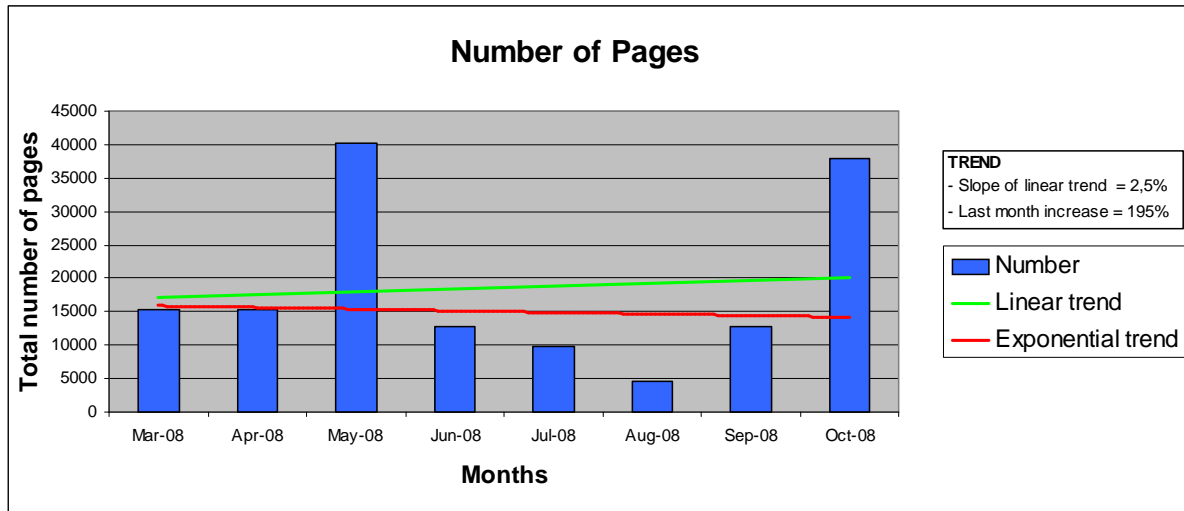


Figure 8: Visited pages

5.4 Visit duration

The following graph shows the visit duration to Gridipedia web site: this is the average time a visitor spends on the Gridipedia site for each visit.

This statistic is calculated for the quarter August-October 2008.

The average duration is about the same in the whole period (about 5 minutes and a half). More than 70% of visits last less than half a minute and only 2-3% last more than one hour.

On the whole, the trend of visit duration was constant in the last three months.

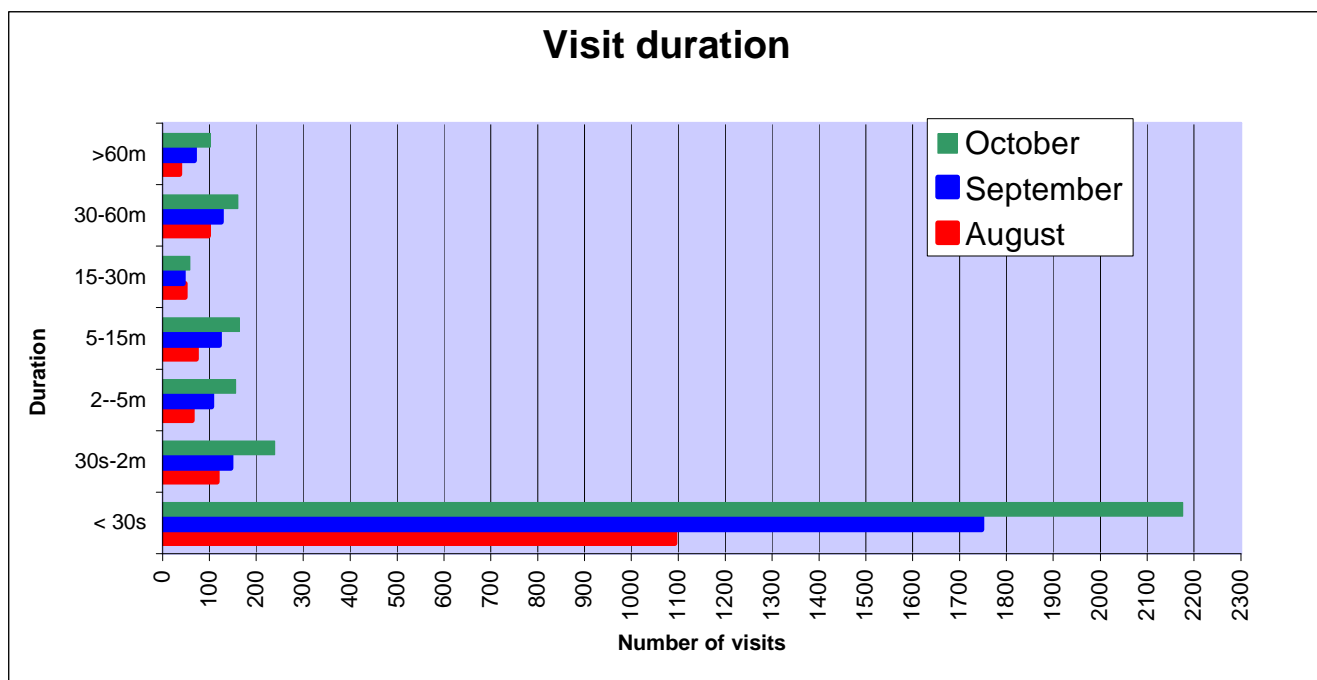


Figure 9: Visit duration: number

5.5 Back-links

Back-links are the links in other sites that cross refer to Gridipedia web site: the more the back-links to a site are, the more the site is known and appreciated.

To find the back-links in the whole web, we used the Google-account webmasters tool that counts all the links detected in the data-base of Google,

At the start of November the back links were as follows:

- total links	245
- from BEinGRID web site	130
from other sites	115

The link to Gridipedia contained in BEinGRID web site were split from the others to better show the external back-links. The data refers to all the past history of Gridipedia web site because monthly data is not available. In the next quarterly report it will be possible to have the use of monthly increments figures.

The next table lists the Gridipedia web pages linked from other web sites, and, for each page, the number of detected links: about all links (227, or 92,6%) point to the home page.

External ink to page	Number of external pages that link to it
http://www.gridipedia.eu/	227
http://www.gridipedia.eu/grid-computing-glossary.html	8
http://www.gridipedia.eu/index.php?id=362	2
http://www.gridipedia.eu/index.php?id=699	2
http://www.gridipedia.eu/ogsa-daidatapublisher.html	5
http://www.gridipedia.eu/vo-management.html	1
Total link	245

Table 3: Back links

6. 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 sections. *GNU wget* is a tool for downloading all files from a given URL <http://www.gridipedia.eu> to a local directory. The GNU *wget* tool was already introduced in D5.3.5_R3 [1] and the usage of this tool is described in Annex C.

The first measurement was done on 29th of November 2007.

6.1 Results of measurements

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.

The results of the measurement are:

Nov 07- PM18: 565 files, packed size 3.629.044 Bytes, uncompressed 6.172.139 Bytes

Feb 08 - PM21: 740 files, packed size 4.618.338 Bytes, uncompressed 7.374.400 Bytes

Mar 08 - PM22: 741 files, packed size 4.646.426 Bytes, uncompressed 7.478.930 Bytes

Apr 08 - PM23: 1081 files, packed size 5.705.085 Bytes, uncompressed 10.358.275 Bytes

Nov 08 – PM29: 559 files, packed size 203.083.819 Bytes, uncompressed 213.107.385 Bytes

The differences of size and files are due to the new structure of Gridipedia. Among the 213.107.385 Bytes we can find 140.000.000 Bytes of new videos

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Annex B. List of Accepted Candidate Items

B.1 Introduction

For the listing of accepted Candidate Items is used the following table-form:

Name of Artefact	Type of Artefact	Submission Date	Submitted by

Table 4: Metadata Schema for accepted Candidate Items

The column “Name of Artefact” describes the name of the accepted artefact or contribution.

The “Type of Artefact” describes the type of the contribution: Technical Publication, Technical, Middleware, Design Pattern, Common Capabilities, Business Report and Other.

The “Submission Date” describes when the contribution was submitted.

The “Submitted by” describes the former of the contribution, and improves traceability of contribution for legal issues.

This inventory report is related to the list of candidate items which have been published for a certain timeframe. According to this report, the timeframe is from May 2008 to November 2008. Rejected or pending candidate items are listed in an internal report and consequently they are not available in this report.

B.2 Accepted Candidate Items

The List of candidate items presented here, shows accepted candidate items, submitted between May 2008 and November 2008. As the previous report doesn’t cover the entirety of May, this month is included in this report. It’s make so a 7 months report.

Name of Artefact	Type of Artefact	Submission Date	Submitted by
FilmGrid demos	Other	23.05.2008	Charaka J. Palansuriya
FilmGrid	Technical Publication	23.05.2008	Charaka J. Palansuriya
Gridsphere Plugin for GRIA middleware	Technical	27.05.2008	Fotis Aisopos
Command-line Client for GRIA Grid middleware	Middleware	28.05.2008	Gregory Katsaros
Algorithm (Ibanez,Zapatero, 2002) using the Globus Toolkit as a Grid middleware.	Technical Publication	29.05.2008	Ioane Muni Toke
How a Grid Computing architecture may be used for the fast pricing of financial options	Technical Publication	29.05.2008	Ioane Muni Toke

Name of Artefact	Type of Artefact	Submission Date	Submitted by
introduction to the parareal algorithm pioneered by Lions et al. in 2001	Technical Publication	29.05.2008	Ioane Muni Toke
Beingrid BE13 presentation	Other	30.06.2008	Alessandro Secco
P-GRADE Grid Portal	Technical	28.07.2008	Gergely Sipos
The AssessGrid Negotiation Manager	Technical	02.10.2008	Igor Rosenberg
Service Locator	Technical	02.10.2008	Angelo Gaeta
Groundwater Modelling	Technical	16-07-2008	Hubert Hérenger
SW-Data diffusion component - Grid Deploy (Generic Grid Broker)	Middleware	04.06.2008	Damien Hubaux
SW-Data consolidation component - Grid Broker (Generic Grid Broker)	Middleware	04.06.2008	Damien Hubaux
Document (Document describing computational and mathematical advances obtained during the development phase of the BE 11)	Technical Publication	10.10.2008	Helene Huard
Grid Relational Catalog (GReIC) area Data management	Technical	19.05.2008	Italo Epicoco
Monte Carlo Valuation of Multidimensional American Options Through Grid Computing	Technical Publication	29.05.2008	Ioane Muni Toke
Textile Grid Portal	Technical	01.07.2008	Alessandro Secco
Visual Installer for OGSA-DAI WSI	Technical	ID 483 is deleted on the tracker. This item has been seen from D5.1.3	ID 483 is deleted on the tracker. This item has been seen from D5.1.3
Parareal Service on a Grid Architecture for Fast PDE Solving	Technical Publication	02.06.2008	Ioane Muni Toke
The parareal algorithm as time domain decomposition method	Technical Publication	02.06.2008	Ioane Muni Toke

Annex C. Used tool for measurement

C.1. Introduction

This section describes the tool used to measure the content size of all Gridipedia sections. The tool chosen is GNU wget. The aims of this annex are to give guidelines to use this tool without checking all documentation.

C.2. 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 GNU wget tool was already introduced in D5.3.5_R3 [1]. The current version of GNU wget is 1.11.4 (<http://gnuwin32.sourceforge.net/>), which was used for recent measurements.

The full command line used for downloading Gridipedia was:

```
wget -p -k -rH -D gridipedia.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 space than 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.