



Mapping Normative Frameworks
of EThics and Integrity of Research

**D 6.2 Publication of the adapted
platform software in a public open
source software repository**



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Mapping Normative Frameworks of EThics and Integrity of REsearch

Publication of the adapted platform software in a public open source software repository D 6.2

Project:	Mapping Normative Frameworks of EThics and Integrity of REsearch
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Deliverable leader:	Alexander Gesinn
Deliverable number:	D 6.2
Dissemination level:	PU
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History

Version	Date	Description	Revised by
1.0.0	2018-04-30	Initial Release	Author: Alexander Gesinn Reviewer: Marc van Hoof

List of contributors

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About EnTIRE

The areas of Research Ethics and Research Integrity (RE+RI) are rapidly evolving. In the EU and internationally, new legislation, codes of conduct and good practices are constantly being developed. New technologies, complex statistical methods, pressure to publish and obtain grants, and growing emphasis on stakeholder driven science increase the complexity of conducting science. In this complex and dynamic environment, it is not easy to identify the correct rules and best tools for responsible conduct of research.

The EnTIRE project aims to create an online platform (The Embassy Of Good Science) that makes RE+RI information easily accessible to the research community. The platform will foster uptake of ethical standards and responsible conduct of research, and ultimately support research excellence and strengthen society's confidence in research and its findings. Our vision is to create a dynamic online Wiki-platform, owned by the RE+RI community, that will make the normative framework governing RE+RI accessible. The platform will adopt open source and open data approaches. By applying novel techniques for data collection, presentation, and comparison, users will navigate quickly and intuitively to appropriate content.

The Wiki approach for the platform software

The Wikimedia Foundation, Inc. (WMF) is a non-profit organization founded in 2003 by Jimmy Wales. It hosts sites such as Wikipedia. Wikipedia is an international online project which attempts to create free encyclopedias in multiple languages. The operation of Wikimedia depends on MediaWiki, a free and open-source wiki software platform.

Semantic MediaWiki (SMW) is a free, open-source extension to MediaWiki. Semantic MediaWiki can turn a wiki into a powerful and flexible knowledge management system. All data created within SMW can easily be published via the Semantic Web, allowing other systems to use this data seamlessly¹. Adapting the Semantic MediaWiki platform using expertise of the stakeholders will result in a dynamic platform which will contain numerous resources for the RE+RI community. The ability of linking related articles together will allow the novice to quickly find key information with minimal effort – including information which he might not have been aware of to be of relevance in the first place.

¹ https://www.semantic-mediawiki.org/wiki/Semantic_MediaWiki





About Work Package 6 “Platform development and maintenance”

Work package 6 is responsible for meeting overall objective 3: to develop a user-friendly platform, including a website and online resources, to facilitate access to RE+RI knowledge and experience and support application in research and evaluation, thus fostering uptake of ethical standards and responsible conduct of research.

List of Deliverables

D 6.1 EnTIRE platform, delivery date: 2018-04-30

D 6.2 Publication of the adapted platform software in a public open source software repository, delivery date: 2018-04-30

D.6.3 Report of the evaluation and graphical user interface of the platform, delivery date: 2019-03-31

D.6.4 Publication of the extensions to the platform in a public open source software repository, delivery date: 2020-08-31

D.6.5 Report of the efficiency evaluation of the platform, delivery date: 2020-10-31

Publication of the adapted platform software in a public open source software repository

The platform is composed of a number of different types of open source software components:

- Operating System
- Operating System Packages
- Web Server
- Database
- Server side programming languages
- Search Engine
- Wiki Software
- Wiki Software Extensions

To make the platform reusable and sustainable also for people without deep knowledge in information technology, D.6.2 creates a fully integrated virtual appliance². A virtual appliance is a pre-configured virtual server, ready to run on a local computer using a so called hypervisor. The EnTIRE project relies on the free and open source hypervisor VirtualBox³ available for a number of host operating systems, including: Linux, macOS, and Windows.

² https://en.wikipedia.org/wiki/Virtual_appliance

³ <https://en.wikipedia.org/wiki/VirtualBox>





D 6.2 Publication of the adapted platform software in a public open source software repository

As public open source software repository we use “SourceForge”. SourceForge is a Web-based service that offers a centralized online location to control and manage free and open-source software projects. It provides a source code repository, bug tracking, mirroring of downloads for load balancing, a wiki for documentation, developer and user mailing lists, user-support forums, user-written reviews and ratings, a news bulletin, micro-blog for publishing project updates, and other features.

The SourceForge repository can be found here:

<https://sourceforge.net/projects/the-embassy-of-good-science/>

Additional to the publication of the platform software on SourceForge, "D.6.4 Publication of the extensions to the platform in a public open source software repository" will mirror MediaWiki and all MediaWiki extensions used by the EnTIRE platform on GitHub to allow potential contributors getting an overview quickly.

Getting started

1. Get VirtualBox⁴
2. Get The Embassy Of Good Science Software Stack⁵
3. Start VirtualBox and select *File > Import Appliance...*
4. After the import has finished, select the *embassy.science* appliance, and click "Start"
5. As soon as the appliance is started, open your browser at <http://localhost:8080/wiki01>
6. Login with user *Admin* and password *embassy.science* (case sensitive!)

List of components and versions, v1.0.0 (2018-04-30)

Ubuntu Server 16.04 LTS
Apache HTTP-Server 2.4.18-ubuntu
MySQL 5.7.21-ubuntu
Elasticsearch 1.7.6
PHP 7.0.25-ubuntu
MediaWiki 1.27.4
Semantic Compound Queries 0.4.1
Semantic Glossary 2.2.0
Semantic Maps 3.3
Semantic MediaWiki 2.5.5
Semantic Meta Tags 1.3.0
Semantic Result Formats 2.5.2
Semantic Title 3.2
Semantic Dependency Updater 1.3.0

⁴ <https://www.virtualbox.org/wiki/Downloads>

⁵ <https://sourceforge.net/projects/the-embassy-of-good-science/files/>





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Admin Links 0.2.3
EditAccount 1.3.3
Page Forms 4.1.1
Replace Text 1.2
UserMerge 1.10.0
Arrays 2.0
DateDiff 0.2.0
Graphviz 1.6.1
Lingo 2.0.3
Loops 0.5.0
Maps 3.8.2
NumberFormat 0.8.1
ParserFunctions 1.6.0
SyntaxHighlight 2.0
TemplateData 0.1.1
UML 0.6
UrlGetParameters 1.4.0
UserFunctions 2.6.1
Variables 2.1.0
AutoCreatePage 0.4
Bootstrap 1.2.3
CirrusSearch 0.2
DataValues Geo 1.1.4
DataValues Validators 0.1.2
Elastica 1.3.0
IDProvider 0.3.3
ParserHooks 1.5.0
QRLite 0.2.0
SimpleTooltip 1.1.0
Substitutor 1.2.0
Validator 2.2.1
VisualEditor





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License

The platform software stack and in particular the Ubuntu operating system and software packages are a collection of thousands of computer programs and documents created by a range of individuals, teams and companies.

Each of these programs may come under a different licence.

VirtualBox

https://www.virtualbox.org/wiki/Licensing_FAQ

Ubuntu

<https://www.ubuntu.com/about/about-ubuntu/licensing>

To list software package license details, ssh into embassy.science virtual appliance and execute

```
grep '^' /usr/share/doc/*/copyright
```

MediaWiki

Start embassy.science and open

<http://localhost:8080/wiki01/index.php/Special:Version>

in your favorite web browser.

Technical details

SSH

User: vagrant

Password: vagrant

MySQL

User: root

Password: mysql

MediaWiki

User: Admin

Initial Password: embassy.science

Install Path: /var/www/wikis/wiki01



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Settings used for Virtual Appliance (OVA) export

In VirtualBox:

- File > Export Appliance...
- Click Expert Mode
- Set Storage Settings
 - File: D:\embassy.science_1.0.0.ova
 - Format: OVA 2.0
 - Write manifest file: YES
- Set Appliance Settings
 - Name: <automatically set>
 - Product: embassy.science
 - Product-URL: <https://embassy.science>
 - Vendor: The EnTIRE Consortium
 - Vendor-URL: <http://entireconsortium.eu/>
 - Version: 1.0.0
 - Description: The Embassy Of Good Science platform software
 - License: GPL-2.0+ and other (see <https://sourceforge.net/p/the-embassy-of-good-science/wiki/License/>)

