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Deliverable D 4.1 Data Management Plan

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Table of Contents

1	Executive Summary.....	4
2	Abbreviations and acronyms	5
3	Background	6
4	Objective/Aim	7
5	Scope of the DMP:	8
5.1	Description	8
5.2	Application to EmulRadio4Rail case	9
5.2.1	Reference and name	9
5.2.2	Data set description	9
5.2.3	Metadata	9
5.2.4	Quality Assurance (QA)	9
5.2.5	Data sharing	10
5.2.6	Archiving and preservation	Erreur ! Signet non défini.
6	Data sets of the project:	10
6.1	OAI LTE emulator eNodeB installation & configuration.....	10
6.2	OAI LTE emulator EPC installation & configuration	11
6.3	Riverbed Core Network Simulation configuration	12
6.4	Channel emulation installation & configuration	12
6.5	RF Interference generation installation & configuration	13
6.6	Satellite emulation platform installation & configuration	14
6.7	Test results	14
6.1.	Raw Traffic Performance Data	15
6.2.	Traffic performance statistics.....	15
7	Conclusions	16



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1 Executive Summary

This deliverable proposes the data management plan (DMP) to be supplied in the context of the H2020 action on open access to research data. Usual practices in relation to data management plan have been taken in account identifying the following data sets characteristics to be observed: description of data to be generated or collected (explanation of the different types of data which will be produced, including file formats where possible), standards and metadata (presence and description of the metadata accompanying the dataset), data sharing (provided access level) and archiving and preservation (procedures ensure preservation of the dataset).

The target datasets in the context of the H2020 pilot on research data focuses on providing on-line access to scientific information that is free of charge to the end-user. In the context of R&D, 'scientific information' can refer to peer-reviewed scientific research articles (published in academic journals) and also to scientific research data (data underlying publications, curated data and/or raw data).

A template to describe the relevant project datasets is defined and includes: reference and name, data set description, metadata, quality assurance, data sharing and archiving and preservation, in-line with the H2020 recommendations.



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2 Abbreviations and acronyms

Abbreviation / Acronyms	Description
DMP	Data management plan
H2020	Horizon 2020
R&D	Research and Development
IPR	Intellectual Property Rights
FGDC	Federal Geographic Data Committee
LTE	Long Term Evolution
OAI LTE emulator eNodeB	Open Air Interface
EPC	Evolved Packet Core
RF Interference	Radio Frequency Interference
TCP	Transmission Control Protocol
TCPdump	A tool to capture and analyze network traffic
UDP	User Datagram protocol
TBD	To Be Determined



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3 Background

The present document is a production of the Task 4.2 “Data Management Plan”. The aim of this task is to provide an analysis of the main elements of the data management policy that will be used by the project partners and target audience with regard to all the datasets generated by the project. The DMP will evolve during the lifespan of the project. It will be developed following the Horizon 2020 guidelines, reflecting the agreed requirements for protection of the different data being shared.



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4 Objective/Aim

The aim of the document is to analyse the type of data produced by the project and set up guidelines to curate and share or protect it. This document will be updated at the occasion of the General Assembly, as the project evolves.



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5 Scope of the DMP:

5.1 Description

Before detailing aspects of the DMP, it is required to clearly identify the scope of a DMP in the context of H2020 on Open Research. As mentioned in the fact sheet to Open Access in Horizon 2020, open access can be defined as the practice of providing on-line access to scientific information that is **free of charge** to the end-user. In the context of R&D, 'scientific information' can refer to peer-reviewed **scientific research articles** (published in academic journals) and also to **scientific research data** (data underlying publications, curated data and/or raw data).

The notion of openness is central for the selection of research data to be included within the EMULRADIO4RAIL participation to the pilot on open research data. Openness is defined by Open Knowledge as having the following characteristics:

- **Availability and access:** the data must be available as a whole as and at no more than a reasonable reproduction cost, preferably by downloading over the internet. The data must also be available in a convenient and modifiable form.
- **Reuse and redistribution:** the data must be provided under terms that permit reuse and redistribution including the intermixing with other datasets. The data must be machine-readable.
- **Universal participation:** everyone must be able to use, reuse and redistribute — there should be no discrimination against fields of endeavour or against persons or groups. For example, 'non-commercial' restrictions that would prevent 'commercial' use, or restrictions of use for certain purposes (e.g. only in education), are not allowed.

To this end, the DMP helps EmulRadio4Rail project team and partners make their research data findable, accessible, interoperable and reusable (FAIR) to ensure it is soundly managed (http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm).

As part of making research data FAIR, a DMP should include information on:

- the handling of research data during & after the end of the project
- what data will be collected, processed and/or generated
- which methodology & standards will be applied
- whether data will be shared/made open access and
- how data will be curated & preserved (including after the end of the project).

The DMP also ensures data security, including data recovery as well as secure storage and transfer of sensitive data.

The fact sheet makes clear that Open access to research data is not a requirement to publish, as researchers are free to publish or not, nor does it interfere with the decision to exploit research results commercially e.g. through patenting. Indeed, the decision on whether to publish open access documents must come after the more general decision on whether to go for a publication directly or to seek first protection using Intellectual Property Rights (IPR). This is depicted on Figure 1. The rules for openness EmulRadio4Rail project data are described for each dataset.

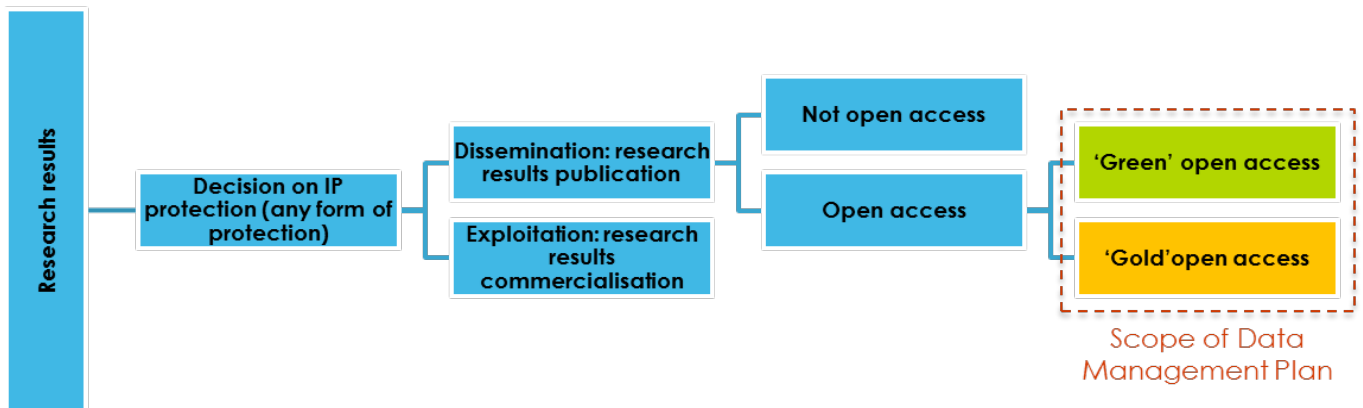


Figure 1: Process of the research results

5.2 Application to EmulRadio4Rail case

The EMULRADIO4RAIL DMP elaborates on the following characteristics of identified data.

5.2.1 Reference and name

An identifier for the data set has to be produced

5.2.2 Data set description

Description of the data that will be generated or collected, its origin (distinguish between newly collected data and data being re-used from other projects), nature, scale and resolution and to whom it could be useful, and whether it underpins a scientific publication. Information on the existence (or not) of similar data and the possibilities for integration and reuse.

Data types could include text, spreadsheets, images, 3D models, software, audio files, video files, reports, surveys, etc. Each WP Leader is responsible for the quality and completeness of the datasets. There is an overall quality control for deliverables (which use data sets) done by the quality manager and the coordinator and a review is planned for each deliverable. Quality is also a subject at each General Assembly, so that deviations noticed by the quality manager can be addressed at this occasion. The data sets description will be updated regularly

5.2.3 Metadata

Reference to existing suitable standards for metadata of the discipline. If these do not exist, an outline on how and what metadata to use, will be created.

As examples, spatial data sets must be documented using either the FGDC version 2.0 or the ISO 19115 metadata standard. The Biological Data Profile standard (associated with FGDC) is very useful for creating documentation of field- and lab-based work. We recommend use of a metadata documentation tool, e.g., Metavist (<http://nrs.fs.fed.us/pubs/2737>).

5.2.4 Quality Assurance (QA)

This section describes the steps that will be used to process and ensure data quality. Procedure needs to include: data proofing and validation, including data collection, entry, transmission, and storage. Criteria related to quality assurance (e.g. documentation, calibration, validation, monitoring, versioning, etc.) should appear here. The data will be organised in databases and documented in a standardised way that will be understood by all the participants of the WP. Each



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partner in the WP will be responsible for the quality and completeness regarding the sources used during the project and referenced to in the deliverable reports. The details for naming the different recorded data files will be given in the following paragraphs. A description of the test strategy will be part of D3.2 and D3.3.

5.2.5 Data sharing

Description of how data will be shared, including access procedures, embargo periods (if any), outlines of technical mechanisms for dissemination and necessary software and other tools for enabling re-use, and definition of whether access will be widely open or restricted to specific groups. Identification of the repository where data will be stored, if already existing and identified, indicating in particular the type of repository (institutional, standard repository for the discipline, etc.).

This section will include any necessary limitations to protect sensitive data as well as how to ensure security of data considering in particular the EU's Data Protection Directive.

When possible the data will be open and shared on research-data.ifsttar.fr with a specific ID in order to facilitate data citation.

5.2.6 Archiving and preservation

Short term and long term data preservation will follow IFSTTAR's rules. The data results coming from the operation of the platforms will be stored first in local hard discs and then a specific module will be bought to store all the results on a research data server at IFSTTAR in Villeneuve d'Ascq.

6 Data sets of the project:

An identification of the possible dataset of interest within the EMULRADIO4RAIL, project has been made. All partners have been requested to identify the datasets to be produced in the context of the project. From that list, several datasets have been characterized being in-line with the scope of the EMULRADIO4RAIL DMP. These datasets are detailed here after.

It should be noticed that no mention of scientific publication is made here. However, it is clear that as a research project, EMULRADIO4RAIL will issue publications. These will be monitored as part of the project dissemination plan.

All the results and data sets of the project will be saved on the project repository called "EMULRADIO4RAIL". This repository is installed on a specific server at Ifsttar. The tool used is "owncloud". A backup is realised every night. A complete back up every month.

6.1 OAI LTE emulator eNodeB installation & configuration

Reference name	OAI LTE emulator eNodeB installation & configuration
Data manager	DTU and IFSTTAR, each of them for their own platform
Contributing partner	DTU, IFSTTAR
Description	Description of Open Air Interface (OAI) LTE's eNodeB installation process and configuration elements, for the specific purpose of the integration/use as a component of the overall EMULRADIO4Railway



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	project.
Metadata	
Quality Assurance	<p>The document will be a PDF document named “AOI LTEeNB SetUp_vX_yymmdd.pdf”, where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p> <p>Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components.</p> <p>Replication of setups will guaranty robustness and lack of gaps in these guidelines.</p> <p>Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.</p>
Data sharing	<p>The documents can be shared among partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications. The rules for OAI LTE emulator eNodeB installation & configuration are public documents available in the Open Air Interface web site.</p>
Archiving and preservation	<p>The installation manual will be saved on the project repository.</p> <p>Long-term preservation period : 10 years after the end of the project</p>

6.2 OAI LTE emulator EPC installation & configuration

Reference name	OAI LTE emulator EPC installation & configuration
Data manager	DTU and IFSTTAR, each of them for their own platform
Contributing partner	DTU, IFSTTAR
Description	Description of Open Air Interface LTE's EPC installation process and configuration elements, for the specific purpose of the integration/use as a component of the overall EMULRADIO4Railway project.
Metadata	
Quality Assurance	<p>Replication of setups will guaranty robustness and lack of gaps in these guidelines.</p> <p>Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.</p> <p>The document will be a PDF document named “OAI LTE_EPC_SetUp_vX_yymmdd.pdf”, where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p> <p>Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components.</p>
Data sharing	<p>The documents can be shared with partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications. The rules for OAI LTE emulator</p>



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	eNodeB installation & configuration are public documents available in the Open Air Interface web site.
Archiving and preservation	The installation manual will be saved on the project repository. Long-term preservation period : 10 years after the end of the project

6.3 Riverbed Core Network Simulation configuration

Reference name	Riverbed Core Network Simulation configuration
Data manager	DTU and IFSTTAR
Contributing partner	DTU, IFSTTAR
Description	Description of cases and their respective configuration, for configuration of core network simulations with Riverbed Modeller elements. Configuration details for SITL interface to enable co-simulation will be provided as well for each of the cases.
Metadata	The document will be a PDF document named “CoreNetSim_vX_yymmdd.pdf”, where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document. Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components.
Quality Assurance	Replication of setups will guaranty robustness and lack of gaps in these guidelines. Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.
Data sharing	The documents can be shared with partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications.
Archiving and preservation	The installation manual will be saved on the project repository as well as the codes. Long-term preservation period : 10 years after the end of the project

6.4 Channel emulation installation & configuration

Reference name	Channel emulation & configuration
Data manager	Each partner on its own channel emulator
Contributing partner	IFSTTAR, IKERLAN and Univ Lille
Description	Description of channel emulation installation process and configuration elements, for the specific purpose of the integration/use as a component of the overall EMULRADIO4Railway project.
Metadata	
Quality Assurance	Replication of setups will guaranty robustness and lack of gaps in these guidelines. Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups. The document will be a PDF document named “Channel_emulation_



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	<p>SetUp_vX_yymmdd.pdf”, where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p> <p>Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components and models.</p>
Data sharing	The documents can be shared with partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications. The channel emulation set up constitutes a specific knowledge of each owner of channel emulator.
Archiving and preservation	<p>The installation manuals will be saved on the project repository.</p> <p>Long-term preservation period : 10 years after the end of the project</p>

6.5 RF Interference generation installation & configuration

Reference name	RF Interference generation installation & configuration
Contributing partner	IFSTTAR, Univ Lille
Description	Description of RF Interference generation installation process and configuration elements, for the specific purpose of the integration/use as a component of the overall EMULRADIO4Railway project.
Metadata	<p>The document will be a PDF document named “RF_Interference_generation_SetUp_vX_yymmdd.pdf”, where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p> <p>Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components and models.</p>
Quality Assurance	<p>Replication of setups will guaranty robustness and lack of gaps in these guidelines.</p> <p>Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.</p>
Data sharing	<p>The documents can be shared with partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications.</p> <p>The RF interference set up constitutes a specific knowledge of the partner who has contributed to the definition of the RF interferences considered in the project.</p>
Archiving and preservation	<p>The installation manual will be saved on the project repository.</p> <p>Long-term preservation period : 10 years after the end of the project</p>



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6.6 Satellite emulation platform installation & configuration

Reference name	Satellite emulation platform installation & configuration
Data manager	RadioLabs
Contributing partner	RadioLabs
Description	Description of Satellite Emulation Platform installation process and configuration elements, for the specific purpose of the integration/use as a component of the overall EMULRADIO4Railway project.
Metadata	
Quality Assurance	<p>Replication of setups will guaranty robustness and lack of gaps in these guidelines.</p> <p>Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.</p> <p>The document will be a PDF document named "Satellite_emulation_platform_SetUp_vX_yymmdd.pdf", where X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p> <p>Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components and models.</p>
Data sharing	<p>The documents can be shared with partners without restrictions. This will support as well reproducibility of experiences and validate obtained results / publications.</p> <p>The satellite emulation platform constitutes a specific knowledge of the responsible platform.</p>
Archiving and preservation	<p>The installation manual will be saved on the project repository.</p> <p>Long-term preservation period : 10 years after the end of the project</p>

6.7 Test results

Reference name	Test results
Contributing partner	All
Description	Description of e2e tests performed for validation of the overall emulator platform, including as well its results.
Metadata	
Quality Assurance	<p>Replication of setups will guaranty robustness and lack of gaps in these guidelines.</p> <p>Post installation tests will be as well defined to guaranty validation and uniformity of performance across installations /setups.</p> <p>The document will be a PDF document named "Test_CaseNameY_vX_yymmdd.pdf", where Test_CasenameY identifies the specific test, X stands for the sequential order for the version of the document (0, 1, 2...) and yymmdd refers to the publication date. Note that the date is reversed to allow for chronologically order also even if alphabetical order is used in order / displaying the different versions for the same document.</p>



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	Within the document, specific sections will be provided to identify: version of the target software /Hardware details of the hosting equipment / Installation and configuration process for each of the software components.
Data sharing	Publication restrictions may be necessary depending on the Test case and the equipment under test, depending on the agreements for it with other stakeholders. Some results could be considered as confidential by X2RAIL-3 WP3 members because related to X2RAIL-3 WP3 prototypes.
Archiving and preservation	The Test results will be first saved during experiment on a mobile hard disk. All the data will be then transferred to a specific server at Ifsttar Villeneuve d'Ascq. A specific module reserved for the data corresponding to the Emulradio4rail results will be bought and installed in the server. The data will be available on demand.

6.1. Raw Traffic Performance Data

Reference name	Raw Traffic Performance Data
Contributing partner	ALL
Description	This dataset will include traffic captures at the input and output of the emulation platform of EmulRadio4RAIL. These traffic captures will be obtained for different configurations of: <ul style="list-style-type: none"> • Types of traffic (TCP, UDP, etc) • Data sizes, bit rates, etc. • Wireless channels (e.g. tunnel, open field, etc). • RF physical layers (e.g. WiFi, LTE, etc).
Metadata	The traffic captures will be stored in .pcap files. These files can be opened by widespread traffic monitoring tools, such as Wireshark. A naming convention will be adopted so that each file represents clearly the different traffic and emulation parameters used.
Quality Assurance	The traffic captures will be done using off-the-shelf tools such as <i>TCPDump</i> , widely used for this purpose.
Data sharing	To be discussed with the X2RAIL-WP3 partners. Same data could be considered as confidential because referring to the prototypes tested.
Archiving and preservation	The Test results will be first saved during experiment on a mobile hard disk. All the data will be then transferred to a specific server at Ifsttar Villeneuve d'Ascq. A specific module reserved for the data corresponding to the Emulradio4rail results will be bought and installed in the server.

6.2. Traffic performance statistics

Reference name	Traffic Performance Statistics
Contributing partner	ALL
Description	Statistics such as Packet Error Rate, Latency or Jitter will be obtained from the different traffic captures (<i>Raw Traffic Performance Data</i>).
Metadata	Obtained statistics will be stored in ASCII files, so that they can be



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	plotted or further processed by other tools.
Quality Assurance	Statistics will be obtained using widespread data-processing tools, such as Matlab and Excel.
Data sharing	The status of the traffic performance statistics should be discussed with X2RAIL-3 WP3 partners.
Archiving and preservation	The Test results will be first saved during experiment on a mobile hard disk. All the data will be then transferred to a specific server at Ifsttar Villeneuve d'Ascq. A specific module reserved for the data corresponding to the Emulradio4rail results will be bought and installed in the server.

7 Conclusions

A first list of data set has been identified and will be updated at each General Assembly if necessary. The curation of data still listed as “to be determined” will be defined later as the valorisation of the platform is being examined by the task 4.3 “Exploitation plan”.