NIVA – NEW IACS VISION IN ACTION

Work Package 4: Knowledge Information System

Deliverable 4.5: Software of the common components

Deliverable Lead: OPEKEPE

Deliverable due date: 30/nov/2020

Document Control Page

Document Control Page	
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Version	**Date**	**Modified by**	**Comments**
0.1	16/04/2021	Nikos Petalidis, Sander Janssen, Matteo Rastelli	This is a simple deliverable related to the available software components on the NIVA Gitlab

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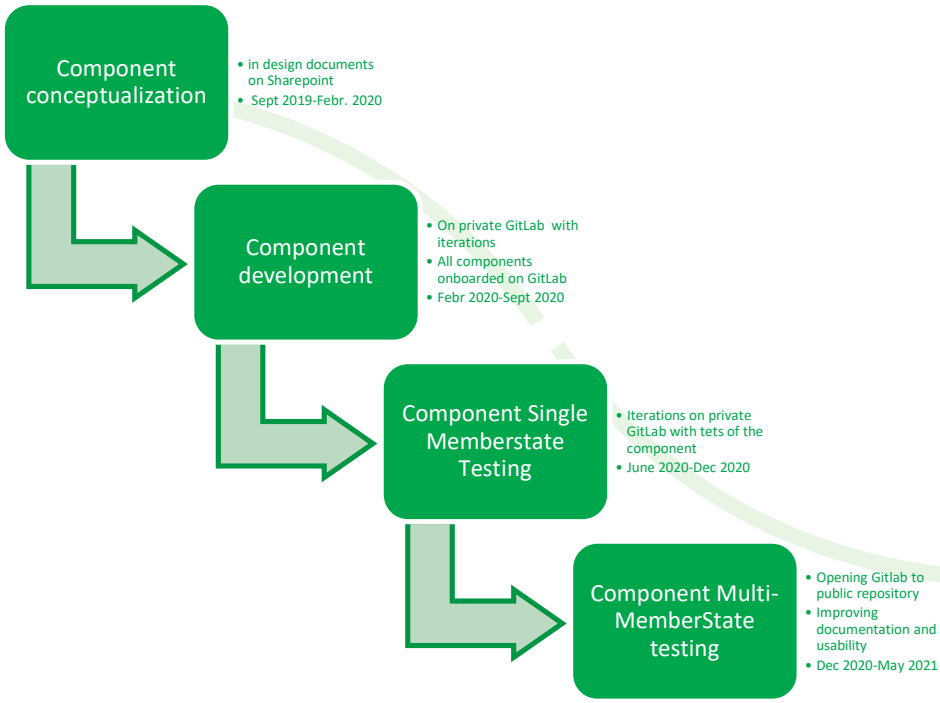
1. Software components

1.1 Component delivery

All NIVA software components will be published as open source with an EU PL licence or equivalent through the NIVA GitLab: https://gitlab.com/nivaeu, which is an open repository.

As NIVA is producting many software components they are in different phases of maturity, but along the process basically the following process is being followed to come to complete and tested software components:



The set up of the NIVA GitLab is documented in D4.1, Common Guidelines for software development in D3.3, and the components themselves have been described in a range of Deliverables D2.3, D2.4 and D4.2

Over time more components and improvied versions will come available through the interations occurring.

1.2 List of components

TYPE	NAME	Link to Gitlab	Link to Component NIVA RA
UI	Data Import	https://gitlab.com/nivaeu/uc1a_dss	DSS PA Front End
P-A	Business Rule Engine	https://gitlab.com/nivaeu/uc1a_dss	*NIVA Decission Engine*
P-A	Decision Engine	https://gitlab.com/nivaeu/uc1a_dss	*NIVA Decission Engine*
UI	Field Map (Geotag link)	https://gitlab.com/nivaeu/uc1a_dss	DSS PA Front End
API	Data Export	https://gitlab.com/nivaeu/uc1a_dss	DSS Generic DataSharing Component
P-A	Computer of carbon indicator Tier 1	https://gitlab.com/nivaeu/uc1b_tier1_co2	Agro environmental indicators
API	IACS-FMIS data sharing API	https://gitlab.com/nivaeu/uc1c-public-api	*Farm Registry*
P-A	Preliminary parcel boundary automatic delineation	https://gitlab.com/nivaeu/uc2_fielddelineation	*LPIS Boundaries Identification*
P-A	Robot data harvesting tool	https://gitlab.com/nivaeu/uc2_robotframework	*LPIS Boundaries Identification*
API	Reference Data model of Farm Registry	https://gitlab.com/nivaeu/uc3/	*Farm Registry*
API	Web servicies for authentication	https://gitlab.com/nivaeu/uc3/	*Farm Registry*
API	Web servicies to load Farm Registry and variety list	https://gitlab.com/nivaeu/uc3/	*Farm Registry*
API	Web servicies to query Farm Registry	https://gitlab.com/nivaeu/uc3/	*Farm Registry*
API	Web servicies to query Data List	https://gitlab.com/nivaeu/uc3/	*Farm Registry*

UI	AgriSnap (GeoTag Photo App)	https://gitlab.com/nivaeu/uc4a_geotagapp	*Geotagged Images Data Sharing Services*
UI	NIVA Connector Frontend Farmer	https://gitlab.com/nivaeu/uc4b_nivafrontend	*Machinery Data Sharing Services*
P-A	NIVA Connector Backend	https://gitlab.com/nivaeu/uc4b_nivaconnectorapi	*Machinery Data Sharing Services*
P-A	NIVA Validator	https://gitlab.com/nivaeu/uc4b_nivavalidatorapi	*Machinery Data Sharing Services*
API	Webservice PA (WUR)	https://gitlab.com/nivaeu/uc4b_ecropservice	*Farm Registry*
P-A	Database scripts PA JSON message	https://gitlab.com/nivaeu/uc4b_ecropservice_(database)	*Farm Registry*
P-A	LPIS automatic change detection (tall vegetation and buildings)	https://gitlab.com/nivaeu/uc5a_ign_maskdetection	IA Algorithm Training Services & Runner
P-A	Change detection of high non-agricultural areas	https://gitlab.com/nivaeu/uc5a_daa_segmentation	IA Algorithm Training Services & Runner
UI	Click and Pay (Claimless system) App and API	https://gitlab.com/nivaeu/uc5b_seamless-claim-webapp https://gitlab.com/nivaeu/uc5b_seamless-claim-api https://gitlab.com/nivaeu/uc5b_pa-services-mock	*Click and Pay Engine*
P-A	Niva Data Supervisor (NIDAS)	https://gitlab.com/nivaeu/uc5b_nidas	*NIDAS Data Sharing Server*
API	NIVA - Sen4CAP link	https://gitlab.com/nivaeu/wp4-sen4cap-api	
P-A	OpenEO	https://gitlab.com/nivaeu/wp4_openeo_parcels_api	
API	Data signals app	https://gitlab.com/nivaeu/WP4_cap-markers-data-signals_ogc_api	
API	eID CET	https://gitlab.com/nivaeu/wp4-cef-componets	
API	eSignature CET	https://gitlab.com/nivaeu/wp4-cef-componets	

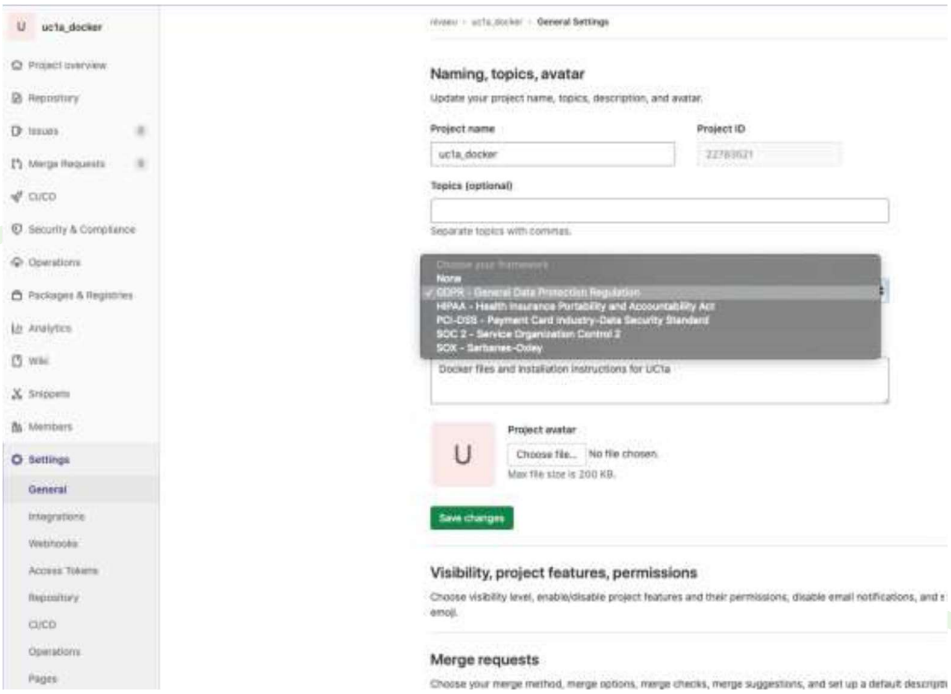
1.3 Repository publication strategy

The maintainer of each project (e.g. UC leader) will need to make sure that for each project the following are respected.

1. Setup project's compliance framework

This can be done via Project->Settings->General

In most cases our projects will have to follow the GDPR compliance framework:



2. Create if not already there a README.md in the root folder of your repository. Add an introduction section, referring to the NIVA project as follows:

```
# Introduction
This sub-project is part of the ["New IACS Vision in Action”
--- NIVA](https://www.niva4cap.eu/) project that delivers a
a suite of digital solutions, e-tools and good practices for
e-governance and initiates an innovation ecosystem to
support further development of IACS that will facilitate
data and information flows.
This project has received funding from the European Union’s
Horizon 2020 research and innovation programme under
grant agreement No 842009.
Please visit the [website](https://www.niva4cap.eu) for
further information. A complete list of the sub-projects
made available under the NIVA project can be found on
```

[gitlab](https://gitlab.com/nivaeu/)

If you feel any attributions to people that help develop the project should be made, they can take place at the end of the README.md file

3. Add a LICENSE file to your project's root directory. The LICENSE has to be an EU-PL license. The text of the license can be found in https://joinup.ec.europa.eu/sites/default/files/custom-page/attachment/2020-03/EUPL-1.2%20EN.txt

4. Add a copyright notice to the beginning of your source files. In the framework of NIVA, copyright owners should be the partners that contributed to the development of the software either through requirements gathering and analysis, design, implementation or pre-release testing. The preamble of the files can be as simple as:

#
 # Copyright (c) <uc-leader>,<co-development partners> 2019 -- 2021.
 # This file belongs to subproject X of project NIVA (www.niva4cap.eu)
 # All rights reserved
#
 # Project and code is made available under the EU-PL v 1.2 license.
#

Although copyright notices may strictly not be necessary they state that:

- the work is copyrighted;
- the contributors of the code licensed it, but retain ownership of their
- copyrights; and
- it was licensed for distribution as part of the named project.

5. Optionally, add a CONTRIBUTING.md file to your project's root directory. This file should describe how one can proceed in contributing to your project. You can borrow ideas from https://github.com/nayafia/contributingtemplate/blob/master/CONTRIBUTING-template.md

6. This is the most important step: Make sure that the source code or any accompanying data files, wiki content and so on do not contain any personal or sensitive information. If they do contain such information and you cannot safely remove it from the project and its history do not proceed in making the project public. You will need to create a separate project with a clean history and make public that project and not your original one.

7. After steps 1-6 are performed send an instruction to the NIVA gitlab where you clearly state that

- You are the maintainer of sub-project X with the gitlab URL.
- You have followed steps (1-6) and in particular clearly state that: no sensitive or personal information can be retrieved from the contents of project X
- You request the project to change its status to public