

# EPOS Security & GDPR Compliance

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## Summary

“EPOS, the European Plate Observing System, is a long-term plan to facilitate integrated use of data, data products, and facilities from distributed research infrastructures for solid Earth science in Europe.

In the Framework of the EPOS project, the Software GLASS was developed. Geodetic Linking Advanced Software System (GLASS) is an integrated software package deployed in a GNSS infrastructure to manage data and metadata, GLASS is an open source platform, developed by EPOS GNSS Data and Products team, under Creative Commons licensing.” [2] **GLASS** Encompasses three key elements. The physical components are the repositories, which means files and databases with data and products. The web services are the portals, monitoring tools, data and product mining solutions. And, finally, the software applications for managing interactions between repositories and services, such as quality control, submission and validation, synchronization and consistency, redundancy and uniqueness.” [2]

Being a complex, distributed software, it is important to access not only the security of the system, but also the compliance with the GDPR (*General Data Protection Regulation*), since it is of vital importance to ensure the security of the personal information, of everyone involved, from the people working on the Project, and providing the service, to the public users that will use GLASS to obtain data.

## Objectives

The main objectives of this project are to perform a complete security and GDPR assessment of the GLASS platform. This should be accomplished by developing a framework that integrates new and existing tools in order to automate this process as much as possible, so it can be used for other systems consisting of multiple softwares.

## Tasks

- **T1** Review the available literature and state of the art – 6 weeks
- **T2** Study how to implement the system – 4 weeks
- **T3** Implementation of the system – 12 weeks
- **T4** Perform the security and GDPR compliance analysis and compare with other solutions available in the market – 3 weeks
- **T5** Write up a MSc thesis – 7 weeks

### Expected Results

- 1 Working and fully implemented software solution
- 1 Final Report

### Timeline

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
T1	X	X						
T2		X	X					
T3			X	X	X	X		
T4						X	X	
T5							X	X

### Sources

[1] EPOS-IP, What is EPOS, <https://www.epos-ip.org/about/what-epos>, Last visit 16 July 2018

[2] EPOS-IP, GLASS is a unique open access platform for Earth Sciences research, <https://www.epos-ip.org/tcs/gnss-data-and-products/news/glass-unique-open-access-platform-earth-sciences-research>, Last visit 16 July 2018