EOMonDis
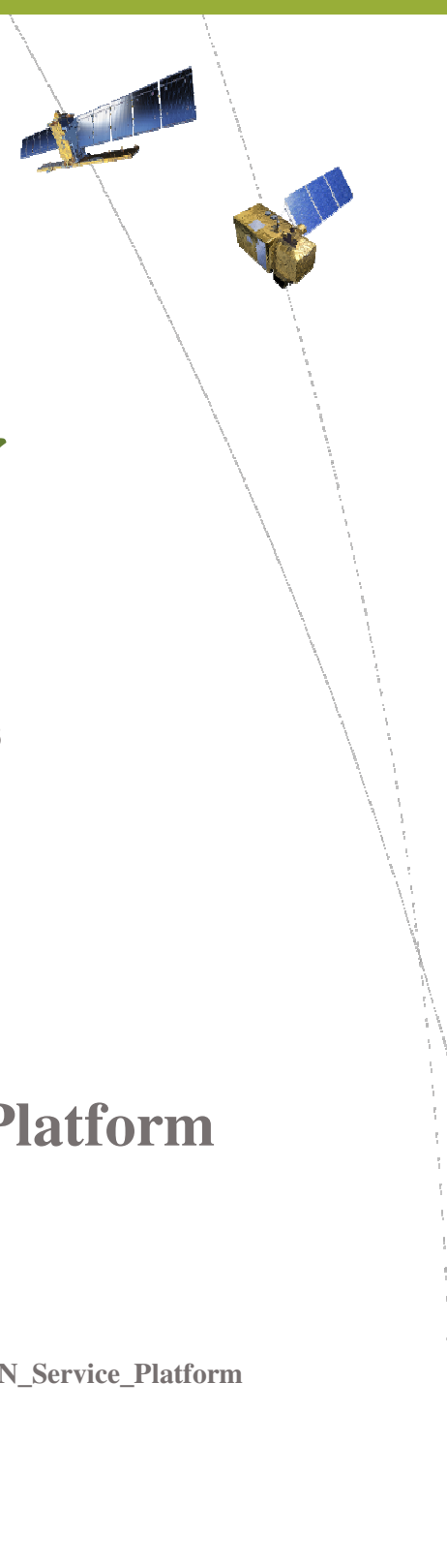
**Earth Observation Services
for Monitoring Dynamic
Forest Disturbances**

Technical Note on the Service Platform

Coordinated by: Partners: Supported by:

GAFAG   SIRS   JOANNEUM RESEARCH DIGITAL   CESBIO   Telespazio

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4	**Université Paul Sabatier Toulouse III**	**UPS**	**France**
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Executive Summary

The purpose of this document is to present the prototype of the EOMonDis Service Platform from a technical point of view. It describes all the work done during the Work Package 4 (WP4) among the development and validation. It also depicts the technical functionalities, system design and how to use it. At the end of the document further developments are described that could be implemented in the near future.

This technical note first briefly introduces what the EOMonDis Service Platform is and the hardware used. Basically, the EOMonDis Service Platform is a system environment where users can search and order new EOMonDis products and follow their request. Therefore, the platform and its functionalities can be compared to a commercial website where goods can be purchased. The hardware consists of two servers dedicated to the service platform software. Because it is deployed on the TPZ infrastructure the EOMonDis Service Platform is able to use some common services, like emailing, security checking, etc.

In the next part, the EOMonDis Service Platform software components and the architecture are described in detail. Further, it explains why the technical solution of the platform was made ready to be deployed on a cloud platform, how the service platform is secured and how the data management is done.

Afterwards, the usage of the platform for the end user is described by showing some functions of the website, which is the front end used as interface in-between the user and the software platform. It also details how the producer must prepare the products files to properly import products in the platform to make them available to users that requested them.

Then, a quick section shows what can be improved to make the Service Platform more user friendly. Finally a more detailed view of the TPZ host infrastructure previously introduced in the document is shown. This section is addressed to technical interested readers who want to go deeper into the understanding of the system.

Briefly, the platform consists of a cloud infrastructure, ready to be connected to or deployed on a cloud service such as a Copernicus DIAS (Data Integrated Access Service).