

Introduction

Ellip is a set of fully fledged **Platform-as-a-Service** (or PaaS) solutions provided by Terradue to support the Earth Science and Services Communities to exploit Earth observations from satellites directly on the Cloud.

Overview

Ellip is designed for application developers, data analysts and information product specialists who need to take the best out of large Earth Observation (EO) data collections, as part of compute intensive applications. Interoperability protocols can be embedded in these applications, thanks to the application integration frameworks delivered to the Ellip developers through the PaaS. Overall, Ellip provides you with a set of Cloud Computing solutions to integrate, test, validate, package, deploy and monitor EO data processing applications.

The Ellip offerings are divided in 2 products:

1. Support to Algorithm Integration
2. Operational Algorithm Hosting

Support to Algorithm Integration

The **Support to Algorithm Integration** pack provides a dedicated Cloud application integration environment with software tools, libraries and access to distributed Earth Observation data repositories powered by dedicated ICT resources and storage.

This pack is targeted for developers that want to adapt and package their existing algorithms written in a specific language (e.g. Python, R, Java, C++, C#, IDL) to fully exploit the power of distributed computing on a production Cloud.

The support provided is focussed on guiding the developer to define the parallelisation strategy, the data management requirements, the tools and libraries necessary, and identify the overall best production plan in a Cloud environment that can be matched by the integrated algorithm. Ultimately, the algorithm is included in an Application Package ready to be deployed and scaled in a Ellip-powered production Cloud and exposed through a Web Service endpoint, Web Processing Service (OGC WPS).

This pack includes the access to Earth Observation data from Copernicus Sentinel-1/2/3, Landsat 8 products or user-provided data. Other missions (e.g. SPOT, Pléiades) are available on a case by case depending on the agreements with the providers.

User Algorithm Hosting				
Scenario	Billing model	Pack name	What we offer	What it costs
service integration	monthly subscription	Support to Algorithm Integration	2 DCS instances 1TB Persistent Storage (*) Access to free EO data collections available in Ellip (**) Support Plus	€2250 Monthly fee

(*) Additional storage available in pay-per-use at €35 TB/month

(**) Optionally users can bring their own data products with additional cost of €40 TB/month for storage and catalogue

Operational Algorithm Hosting

The **Operational Algorithm Hosting** pack deploys and operates a previously packaged algorithm, delivered as a service in the Cloud and exposed through a Web Service endpoint, compliant with the Open Geospatial Consortium Web Processing Service (OGC WPS) standard interface.

This pack is targeted for service providers who want to deliver an operational processing service to a group of selected end-users, portals and B2B client applications. The authorized users of the service are able to define processing parameters, trigger data processing jobs or setup systematic processing requests, and to establish the data pipelines for the retrieval of the information produced. Data access mechanisms to Earth Observation data products from Copernicus Sentinel-1/2/3, Landsat 8 products or user-provided datasets are also available from that environment. Other missions (e.g. SPOT, Pléiades) are available on a case by case depending on the agreements with the providers.

This offering includes the provision of the ICT resources necessary for the planned usage scenario, the operations management for the hosted service and the Web Applications customized for the service execution and monitoring.

User Algorithm Hosting				
Scenario	Billing model	Pack name	What we offer	What it costs
service operations	pay-per-use	Operational Algorithm Hosting	Operations Management Processing Capability 1TB Persistent Storage (*) Access to free EO data collections (**) Infohub for service execution, monitoring and discovery Support Basic	€1,5 per input product (***)

(*) Additional storage available in pay-per-use at €35 TB/month

(**) Optionally users can bring their own data input products with additional cost of €40 TB/month for storage and catalogue

(***) Price per initiated hour; €700 setup fee; €500 minimum monthly consumption

Upgrade	Processing Nodes	Price per input
High	up to 4	€ 3,00
Extra	up to 12	€ 6,00
Custom	Contact us for more	