

DIAS COMPARISON - AVAILABILITY OF FUNCTIONS, FEATURES AND SERVICES

| Data type | Available (Yes/No) | Completeness of the archive per catalogue | Data Description/Specifications |
|---|--------------------|--|---|
| Sentinel | Yes | <p><u>Sentinel-1</u> - RAW and SLC: Full availability, since the beginning of the mission. - GRDH and OCN: Full availability, since June 2016</p> <p><u>Sentinel-2</u> Full availability, since the beginning of the mission.</p> <p><u>Sentinel-3</u> - Marine: since May 2018 - Land: Full availability, the beginning of the mission.</p> <p><u>Sentinel-5P</u> to come in March/April 2019</p> | <p><u>Sentinel-1 Products</u>: All levels and product types in the original format</p> <p><u>Sentinel-2 Products</u>: All levels and product types, in the original format.</p> <p><u>Sentinel-3 Land Products</u>: All levels and product types, in the original format, for OLCI and SRAL instruments.</p> <p><u>Sentinel-3 Marine Products</u> = All Level-2 product types, in the original format, for SRAL, OLCI and SLSTR.</p> <p>Products are available few hours after publication on the ESA hubs/source servers. ONDA retrieves these data without other delays than transfer time.</p> <p>NRT products are not offered as the rapidity to access the data is the critical parameter. To not add additional time lags in getting these data from the DIAS, data must be recovered through the ESA Hubs.</p> |
| HR/VHR | Yes | <p>ENVISAT From January 2008 to January 2010</p> <p>LANDSAT-8 Coverage over Mediterranean countries from April 2018</p> | <p>ENVISAT = ASAR L0 products</p> <p>LANDSAT-8 = OLI/TIRS L1TP products</p> |
| Other EO data (please specify in the description) | Yes | Commercial/Private Data (Customer property) | ONDA IaaS provide solutions to host commercial/private data. Portfolio include SSD/HDD Disk or Object Storage solutions. For license protection reasons, data are not publicly accessible through the Catalogue but through the specific and private virtual environment of the customer. |
| Non-EO Data (please specify in the description) | No (Planned 2019) | | ONDA gives priority in providing access to multi petabytes of satellite data freely accessible on the web. The ONDA evolution lines planned to offer a service where indexes derived from these satellite data are accessible (e.g NDVI, Urban Index or Burnt index, etc. from Sentinel-2A, Landsat-8, etc.) |
| Other types of data (please specify in the description) | No (Planned 2019) | | <p>In-situ measurements are foreseen in the future (Coriolis Dataset, Argo Floats data, etc.)</p> <p>The future ONDA service based on REST API (WMTS service) allows merging any type of georeferenced information (raster, vector, etc.)</p> |
| Services | Available (Yes/No) | Which ones? | Comments |
| Copernicus core services available <u>locally</u> | Yes | <p><u>CMEMS - Copernicus Marine Environment Monitoring Service</u> Selected datasets since June 2017</p> <p><u>CLMS - Copernicus Land Monitoring Service</u> Selected datasets since June 2017</p> <p><u>CAMS - Copernicus Atmosphere Monitoring Service products</u> to come in March 2019</p> | <p><u>CMEMS</u>: Processing level L3 and L4 Observation and information produced in the following applications: - Marine Safety - Marine resources - Coastal and marine environment - Weather seasonal forecasting and climate</p> <p><u>CLMS</u>: Processing Level L3 Information produced by the service (land cover/land use and indexes related to the vegetation state or the water cycle)</p> <p><u>CAMS</u>: Processing Level L4 Real-time analyses and forecasts of chemical species and aerosol</p> |
| Backend services for developers | Yes | | <p>ONDA offers two APIs to access multi petabytes of data: OData (Open Data Protocol) and Advanced API (ENS - Elastic Node Server).</p> <ul style="list-style-type: none"> • OData queries can be used directly in the Catalogue for data search, view and download • the Advanced API allows accessing any low level component of the product through ENS (Elastic Node Server). No download nor unzip are required to process the data. <p>Both APIs can be used with any general programming or scripting language.</p> |
| EO Processing Tools | Yes | <p>Open source Software tools are available with our pre-configured virtual environments for:</p> <ul style="list-style-type: none"> • data processing (SNAP, QGIS, Orfeo Libraries, ESA Toolboxes, GDAL, EO Browser, GeoTools) • development (Python, Git, Gcc, etc) • dissemination of value-added products • administration of front-end services | <p>A number of dedicated <u>Software tools</u> are available as part of the Custom Environments service (see below), which provides pre-configured virtual environments and is free for all users who sign up with our Virtual Server service.</p> <p>Non exhaustive list is available at: https://www.onda-dias.eu/cms/services/catalogues/tools/ Note that open source Software tools can be added upon request.</p> |

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| EO applications Professional services | No No | | <p>ONDA is an "Enabler of Capabilities" and it serves a wide variety of users, regardless of what type of thematic application or business they are dealing with.</p> <p>In this context, our offer includes:</p> <ul style="list-style-type: none"> • The ONDA <u>Marketplace</u>, providing a free storefront to our users where they can promote and sell their own solutions (non exhaustive list at https://www.onda-dias.eu/cms/marketplace/cataloguem/) • Our <u>Managed Services</u>, providing our expertise in supporting users to develop their innovative solutions and create new services. SERCO has a long-standing experience in EO Applications as currently applied, for example, in the ESA RUS contract . |
| Managed services | Yes | Data Hosting Business Support Service | <p><u>Data Hosting</u> The ONDA Data Hosting service allows customers to store their own data and make them available through the ONDA interfaces and services. The customer can decide to keep the data private or to share them openly to selected partners.</p> <p><u>Business Support Service</u> The ONDA Business Support service provides users with the benefit of dedicated services that include:</p> <ul style="list-style-type: none"> • Dedicated Architect for Engineering support and troubleshooting and investigations • Dedicated billing: flexible payment possibilities and ad-hoc SLAs negotiations • Security reporting • Delivery optimisation + minimum delay guaranteed |
| Other services | Yes | Custom Environments | <p>The ONDA <u>Custom Environments</u> service allows you to optionally benefit from pre-configured templates when ordering a Virtual Server. These available virtual environments also include dedicated Software Tools.</p> <p>The Custom Environments service is optional and free-of-charge for all users ordering a Virtual Server: the customer just has to select the preferred custom template at the moment of ordering the virtual machine.</p> <p>The ONDA <u>customized cloud solution</u> relies on private cloud (VMWare technology). The Customer has dedicated cloud resources (i.e. no other users will access resources physically in the host reserved to the customer). All the native features are included with the High Availability as well.</p> |
| Support | Available (Yes/No) | Comments | |
| Manuals | Yes | User Guides of APIs and Services: • Catalogue Open Data Protocol (OData API) – User Guide • Advanced API - User Guide | |
| Tutorials | Yes | Tutorials to access ONDA services: • ONDA User Portal - Tutorials • Catalogue – Tutorial Online Help: • FAQs • Glossary | |
| Support | Yes | The ONDA team can be reached through one single and clear contact point: the <u>Contact Us</u> form. A Service Desk support is available to respond to all requests from generic information to customer troubleshooting. | |
| Type of Cloud offer | Available (Yes/No) | Comments | |
| Pay-per-use | Yes | <p>The ONDA Cloud provider is OVH. Two payment models are available:</p> <ul style="list-style-type: none"> • pay per use (hourly) • subscription (monthly) <p>The ONDA public offer relies on OpenStack technology and proposes a high level of granularity in terms of VM specifications, starting from a single 2-CPU host, up to entire multi-layered systems. In case of more complex requirements/requests, ONDA develops ad-hoc solutions based on B2B quotations.</p> | |
| Package offer | Yes | <p>ONDA has a public portfolio. Users select a model (VM, Storage, customized environment..) and increase/decrease its specifications according to needs at any time.</p> <p>Package offers can also be configured with the customer through bilateral exchanges. Some are currently offered such as the ONDA 4 Education package including Infrastructure, Data but also training on EO based thematic applications.</p> | |
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