



COPERNICUS SENTINELS DATA ACCESS

WORLDWIDE BENCHMARKING

TARGET-SPECIFIC ASSESSMENT

ONDA

The most complete collection of Copernicus Sentinels data with consistently very good overall performances, despite a major datacentre incident. Service support and documentation to be improved.

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Following an important hosting infrastructure incident in March 2021, we have been able to minimise the impact on ONDA Services and users by taking advantage of our multi-site fast redeployment capabilities. We acknowledge the results of the present report and we will use it to keep improving ONDA and evolve its services in the second half of 2021 and throughout the 2022.

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– Guido Vingione, Director, Space Business Development – Serco Europe

The benchmarking results were shared with the target site Service Provider. The above statement was received for this report.

Visit: <https://github.com/esa-cdab>

The Copernicus Sentinels Data Access Worldwide Benchmark aims at establishing a robust and widely-shared reference frame to assess Sentinels data accessibility performances. The service operates an independent benchmarking of ESA's hubs and DIASes from a worldwide network of 25+ user test sites.

Acknowledgments

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Suitability for NDVI computation (E1)

Required data is fully available with excellent performance in-cloud, but additions to documentation would be appreciated e.g. about sharing processed results.

79%
-5%



Suitability for Rapid Mapping (E2)

Outstanding results in all respects, could benefit from faster technical support responses and documentation improvements.

86%
+1%



Suitability for large-scale mosaicking (E3)

Very good results from automated tests, fast cloud resources availability, but more advanced developer documentation was not found. Some data access issues.

86%
N/A



Suitability for trends computation (E4)

Many ENS data access issues forced the download from external sources. Processing efficiency was good anyway but still more developer documentation would be fine.

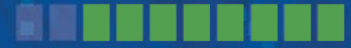
81%
N/A



Suitability for interferogram computation (E5)

Offering is well suited for the task which was successfully completed, but performance of cloud resources was lower.

76%
-6%



Collections Richness (Q1)

Almost full local catalogue offering, with very short availability latency. Previously reported metadata issues have been fixed.

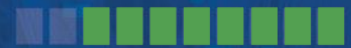
95%
-3%



Reactivity (Q2)

Stable endpoint with no site availability issues, but site response time is often out of the satisfaction zone.

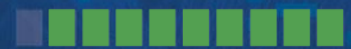
81%
+2%



Discoverability (Q3)

Highly fluctuating catalogue performance because of the datacentre incident, nevertheless good results from previous periods are confirmed.

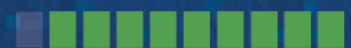
85%
+5%



Data Download (Q4)

Quick availability of archived products and high download throughput, apart from a speed drop towards the end of the period.

87%
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Cloud Computing (Q5)

Cost efficient cloud resources with good provisioning latency. Discoverability and download performances on par with their non-cloud counterparts.

84%
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Time Stability (Q6)

The datacentre incident necessarily originated some instability in all indicators, especially the ones related to catalogue queries.

67%
-23%



Geographic Variability (Q8)

Best performance from the test site in Strasbourg, where the ONDA infrastructure is located, closely followed by Germany and UK.

80%
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Complementary Offer (Q9)

Very complete data access service offer, lacking only in the areas of complementary non-Copernicus data and more advanced developer tools.

80%
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Service Support (Q10)

Quick registration process and prompt responses to technical support requests, but a more complete ticketing system is missed.

65%
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Benchmarking Details

Target Site URL: https://www.onda-dias.eu	Service Design Document Version: 2.0
Campaign period: 16/03/2021 00:00 – 23/05/2021 24:00 (UTC)	Benchmarking Report: CDAB-RP-EXP-0306 Specific Report 5
Reference Test Sites Locations: Bari, Brussels, Gravelines, Magdeburg, Warsaw	System SW Configuration: Client 1.3.16, Remote client 1.40
	Release Date: July 2021