exprivia

TERRADUE

COPERNICUS SENTINELS DATA ACCESS
WORLDWIDE BENCHMARKING
TARGET-SPECIFIC ASSESSMENT

ONDA

The most complete collection of Copernicus Sentinels data with consistently very good overall performances. Service support and documentation to be improved.

" The benchmarking results were shared with the target site Service Provider, but no statement was received. "

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.

European Union

Copernicus
Europe's eyes on Earth

esa

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.

83% +4%

Suitability for Rapid Mapping (E2)
Outstanding data access speed, while response time has room for improvement. Could benefit from faster technical support responses and more documentation.

86% ==

Suitability for large-scale mosaicking (E3)
Cloud resources were slower and less cost-efficient this time, even though data throughput was still excellent, despite some data access protocol issues.

77% −9%

Suitability for trends computation (E4)
Some issues with long delays for offline data retrieval via Advanced API. Processing efficiency was good anyway, now with faster provisioning and throughput.
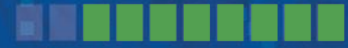
85% +4%

Suitability for interferogrammes computation (E5)
Offering is well suited for the task which was successfully completed with fast data access, but cost-efficiency of cloud resources was lower than other scenarios.

76% ==

Collections Richness (Q1)
Almost full local catalogue offering, with very short availability latency. Minor issues with reported coverage figures to be investigated yet.

96% +1%

Reactivity (Q2)
Stable endpoint with no site availability issues, but site response time is often out of the satisfaction zone except for the test site in Belgium.
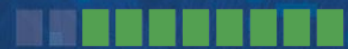
79% −2%

Discoverability (Q3)
Very good reliability of query results, but response time for complex searches was often slow, especially in the first part of the test campaign.

83% −2%

Data Download (Q4)
Quick availability of archived products and high download throughput. Some errors and slow response times were occasionally observed.

91% +4%

Cloud Computing (Q5)
Cost efficient cloud resources with very good provisioning latency. Discoverability and download performances on par with their non-cloud counterparts.

87% +3%

Time Stability (Q6)
Indicators' values are now back to a very stable trend, after the datacentre incident in the previous period. Occasional fluctuations in Q3 and Q4 results.

92% +25%

Geographic Variability (Q8)
Best performance from the test site in Strasbourg, where the ONDA infrastructure is located, closely followed by UK and Belgium.

Complementary Offer (Q9)
Very complete data access service offer, lacking only in the areas of complementary non-Copernicus data and more advanced developer tools.
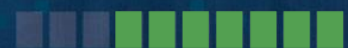
80% ==

Service Support (Q10)
Quick registration process and prompt responses to technical support requests, but a more complete ticketing system is missed.

65% ==

Benchmarking Details

Target Site URL: https://www.onda-dias.eu	Service Design Document Version: 2.0
Campaign period: 03/08/2021 00:00 − 12/09/2021 24:00 (UTC)	Benchmarking Report: CDAB-RP-EXP-0306 Specific Report 6
Reference Test Sites locations: Bari, Brussels, Gravelines, Magdeburg, Warsaw	System SW Configuration: Client 1.3.26, Remote client 1.50
	Release Date: September 2021