

ESE-ERGO

Achievements – (3) Metrics Application[Short version]



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Outline



- Context
- GUI interface
- Interface with TellUs (FTP)
- Conclusion

- CEOS Requirements
- CWIC Server Metrics



Context



- CEOS WGISS SLT defined
 - Global Core Metrics
 - Data Provider Core Metrics
 - Collection core Metrics

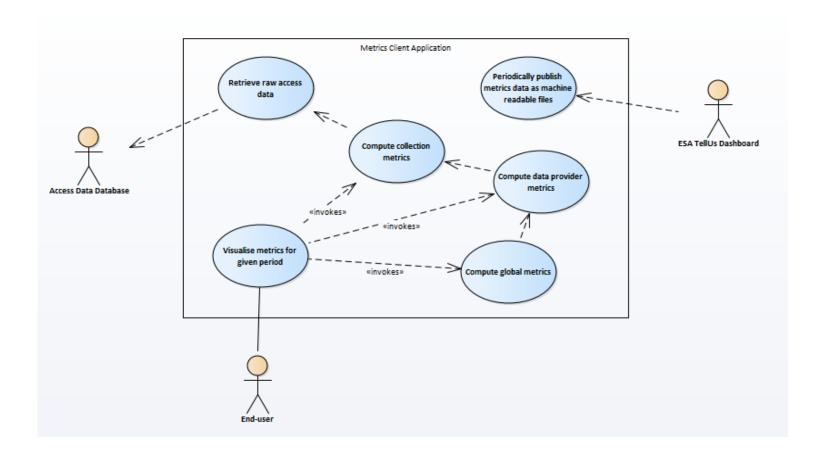
Table 2: Global core metrics

#	Metrics	Users	Purpose	Scope
5	Total number of queries per given period	U, M	U	Α
6	Total number of queries on OSDD per given period	U, M	U	А
7	Total number of queries on record search per given period	U, M	U	Α
8	Total number of queries on specific ID per given period	U, M	U	Α
9	Deleted.	U, M	U	
14	Total number of success queries per given period	S,M	Q	Α
15	Total number of failed queries per given period	S,M	Q	Α
16	Minimum response time on record search per given period	S,M	Q	Α
17	Maximum response time on record search per given period	S,M	Q	Α

Software Overview



Main use cases and actors



Metrics client application



- Packaged for deployment on kubernetes
- New SCF document for Kubernetes cluster installation, including configuration to collect metrics via NGINX.

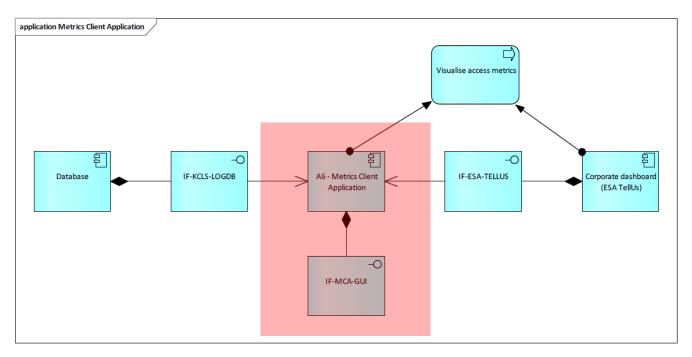
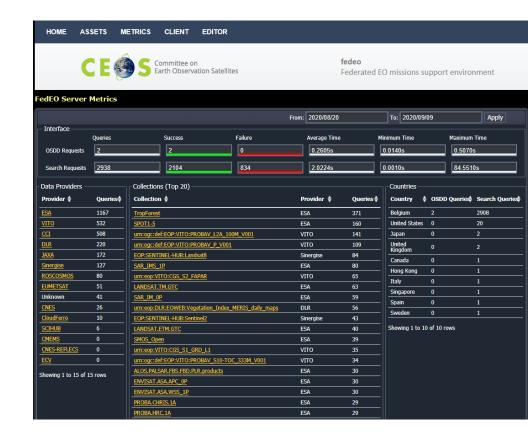


Figure 4: Metrics Client Application Context diagram

Web interface FedEO Metrics



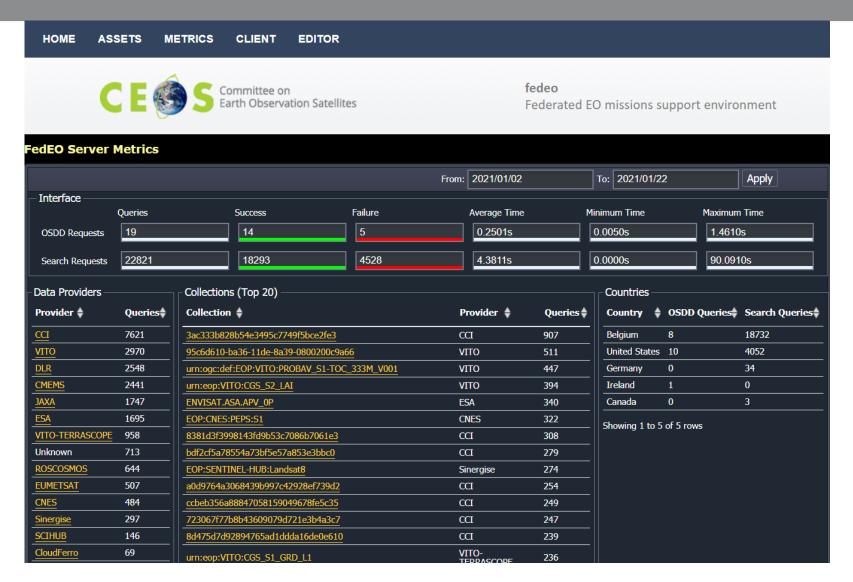
- CEOS data access metrics
- Web interface deployed in test environment.



https://ergo.spacebel.be/metrics/

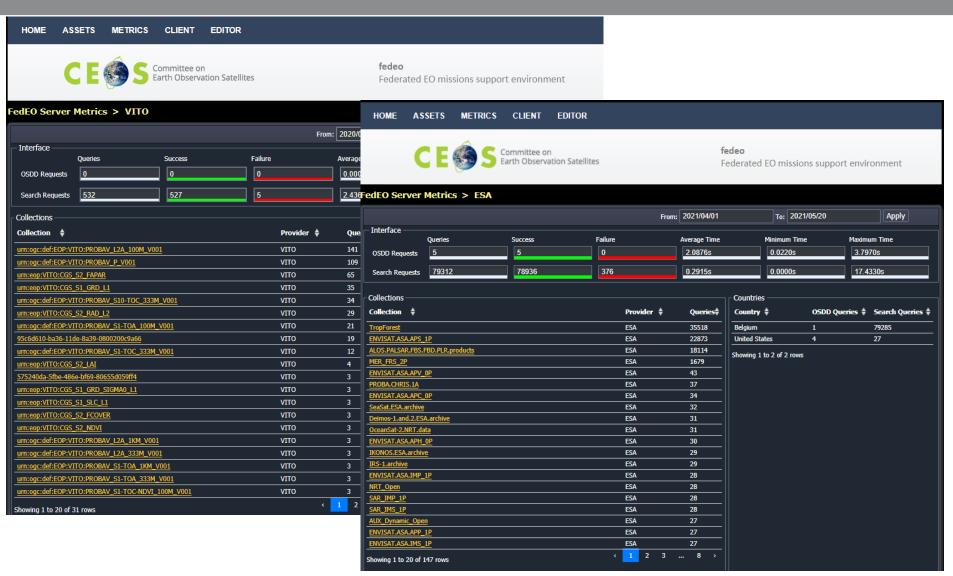
Metrics client application





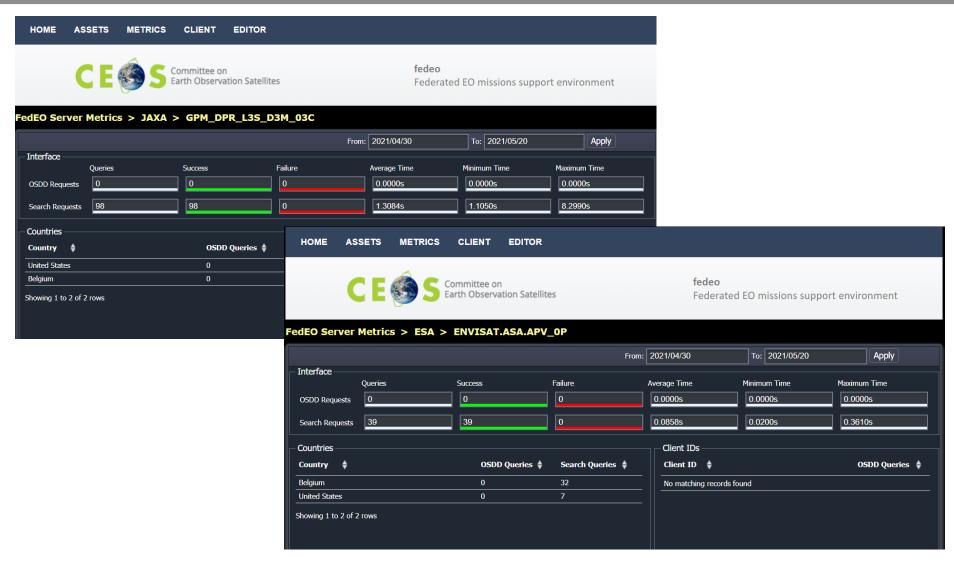
Provider Metrics





Collection Metrics





TellUs interface



FTP Push interface

#FOOTER|2021-05-19T23:59:59Z

Three daily files (.CSV)

```
DWHDATA_FEDE_TOTL_20210519T000000Z.dat

DWHDATA_FEDE_TOTL_20210518T000000Z.dat

DWHDATA_FEDE_QUER_20210519T000000Z.dat

DWHDATA_FEDE_QUER_20210518T000000Z.dat

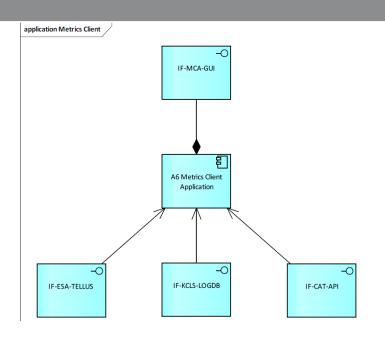
DWHDATA_FEDE_OSDD_20210519T000000Z.dat

DWHDATA_FEDE_OSDD_20210518T000000Z.dat

DWHDATA_FEDE_OSDD_20210518T000000Z.dat
```

#HEADER|FEDE_OSDD|2021-05-19T00:00:00Z|2021-05-19T00:00:00Z|2021-05-19T23:59:59Z| #FOOTER|2021-05-19T23:59:59Z

```
#HEADER|FEDE_QUER|2021-05-19T00:00:00z|2021-05-19T00:00:00z|2021-05-19T23:59:59z|
'EOP:ROSCOSMOS';'BE';'ROSCOSMOS';'29';
'001aab54-295d-4fb3-b269-748b8e0b9a04';'BE';'DLR';'3';
'EOP:SENTINEL-HUB:Landsat8';'US';'Sinergise';'3';
'1ab66621-5bb0-45b1-a0ad-a5caa263f366';'BE';'DLR';'2';
'200ff3bf37d744a48b48cb2e3565cace';'BE';'CCI';'2';
'302f379334e84664bd3409d08eca6565';'BE';'CCI';'2';
'42f7230ab55641cdac1bba84eabd446a';'BE';'CCI';'2';
'ENVISAT.ASA.APV_OP';'US';'ESA';'2';
'ENVISAT.ASA.APV_OP';'BE';'ESA';'2';
'urn:ogc:def:EOP:VITO:PROBAV_S1-TOC_333M_V001';'BE';'VITO';'2';
'urn:ogc:def:EOP:VITO:PROBAV_S10-TOC_333M_V001';'BE';'VITO';'2';
'urn:ogc:def:EOP:VITO:PROBAV_S5-TOC_100M_V001';'BE';'VITO';'2';
'004fd44ff5124174ad3c03dd2c67d548';'BE';'CCI';'1';
'00a0da5d759d4d69ae866a23b84011be';'BE';'CCI';'1';
```

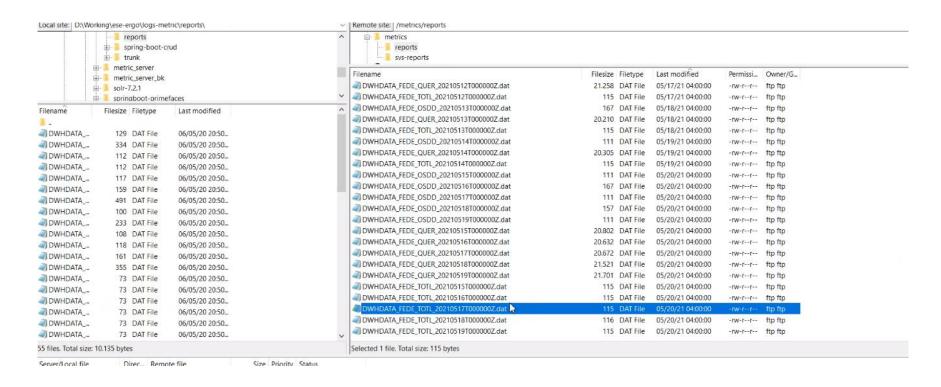




TellUs interface



Daily files currently pushed on FTP server...



Conclusion



- Software deployed @Spacebel since mid 2020.
 - Metrics agreed in CEOS SLT are available for all collections from all partners accessed by the Gateway/Catalogue
 - Designed for use with "instance-1" (multi-provider). Compatible with "instance-2" as well (mono-provider).
 - Is to be used in combination with ESE-ERGO endpoint. Use with "old" gateway requires different fluentd config (syntax of search requests to extract "parentIdentifier" slightly different).
 - Requires extended K8S Cluster config (NGINX).
- Interface with TellUs





- Software available on GitHub
 - https://github.com/spacebel/MCA
- Contacts
 - Yves.Coene@spacebel.be
 - Marc.Gilles@spacebel.be