MAAS CDS User Manual

MAAS CDS v2.5.0

generated on 2024-06-13

|  |  |  |  |
| --- | --- | --- | --- |
| **Written by** | **Responsibility-Office-Company** | **Date** | **Signature** |
| Antoine Jammes | MAAS CDS Team | 2024-06-13 |  |
| **Verified by** |  |  |  |
| Vincent Ravit | TPZ-F Quality assurance |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Approved** |  |  |  |
| Thomas TESTASECCA | MAAS CDS Product owner |  |  |

**Issuing entity** : DG Telespazio France

Table of Contents

[1 Introduction 3](#_Toc393619891)

[1.1 Purpose of the software 4](#_Toc2011632298)

[1.1.1 Introduction of the Omcs components and functional concepts 4](#_Toc1897847201)

[2 Omcs 4](#_Toc1777705498)

[2.1 Login 5](#_Toc354811442)

[2.2 OMCS home page 5](#_Toc1092582571)

[2.3 Menu 7](#_Toc1922875140)

[2.4 Dashboards 8](#_Toc1287437549)

[2.4.1 Omcs dashboards organisation 8](#_Toc1591043865)

[2.4.2 Omcs dashboards usage 8](#_Toc307182931)

[2.5 Dashboards Panels and Datasources 10](#_Toc1690636737)

[2.6 Filters selector usage 11](#_Toc312581378)

[2.6.1 Ad-hoc filter usage. 12](#_Toc1526798965)

[2.7 Acquisition passes status (from EDRS)🔗 14](#_Toc2068197466)

[2.8 Acquisition Planned Downlinks🔗 15](#_Toc139752712)

[2.9 Station Acquisition Status (CADIP)🔗 15](#_Toc1105266413)

[2.10 Station Acquisition Status (EDS)🔗 16](#_Toc1682324066)

[2.11 Station Acquisition Status (X-Band)🔗 16](#_Toc1614678739)

[2.12 Anomaly correlation follow-up🔗 17](#_Toc993662628)

[2.13 CAMS issue list🔗 17](#_Toc480869607)

[2.14 ADG Completeness (vs external providers)🔗 17](#_Toc1038628495)

[2.15 AUXIP-LTA Completeness🔗 19](#_Toc838359179)

[2.16 AUXIP-MPCIP Completeness🔗 19](#_Toc2087135092)

[2.17 DD Completeness🔗 20](#_Toc675313155)

[2.18 LTA Completeness🔗 20](#_Toc1187907718)

[2.19 PRIP-DD Completeness (product count)🔗 21](#_Toc1189014074)

[2.20 PRIP-DD Completeness🔗 21](#_Toc1098498872)

[2.21 PRIP-LTA Completeness (All LTA)🔗 22](#_Toc122122313)

[2.22 PRIP-LTA Completeness🔗 22](#_Toc464118534)

[2.23 S1 Datatake Completeness (Produced vs Planned)🔗 23](#_Toc1048864671)

[2.24 S1 Production Completeness (Produced vs Planned)🔗 23](#_Toc1277773482)

[2.25 S2 Datatake Completeness (Produced vs Planned)🔗 24](#_Toc532693216)

[2.26 S2 Production Completeness (Produced vs Planned)🔗 25](#_Toc47770310)

[2.27 S3 Datatake Completeness (Produced vs Planned)🔗 25](#_Toc989947885)

[2.28 S3 Production Completeness (Produced vs Planned)🔗 26](#_Toc2013156044)

[2.29 S5 Datatake Completeness (Produced vs Planned)🔗 26](#_Toc529373830)

[2.30 S5 Production Completeness (Produced vs Planned)🔗 27](#_Toc352030233)

[2.31 DD Completeness (Manual Parameter Selection)🔗 28](#_Toc1099403980)

[2.32 Product Inventory - Origin Date🔗 28](#_Toc325314535)

[2.33 Interface monitoring Global view🔗 28](#_Toc1540750307)

[2.34 System Technical Budget Diagrams🔗 29](#_Toc738109816)

[2.34.1 Data selected 29](#_Toc1313381235)

[2.34.2 Annexes 30](#_Toc1428238777)

[2.34.3 Dashboard usage 31](#_Toc1067528711)

[2.35 System Technical Budget Schematic View - S1🔗 31](#_Toc1513513370)

[2.35.1 Data selected 31](#_Toc1065370691)

[2.35.2 Annexes 31](#_Toc490219077)

[2.36 System Technical Budget Schematic View - S2🔗 31](#_Toc490051106)

[2.36.1 Data selected 31](#_Toc381703056)

[2.36.2 Annexes 31](#_Toc56086363)

[2.37 System Technical Budget Schematic View - S3🔗 31](#_Toc662140252)

[2.37.1 Data selected 31](#_Toc1930765025)

[2.38 System Technical Budget Schematic View - S5🔗 31](#_Toc2016166562)

[2.38.1 Data selected 31](#_Toc831757413)

[2.38.2 Annexes 31](#_Toc2014843641)

[2.39 System Technical Budget Table - Acquisition🔗 31](#_Toc1323745824)

[2.39.1 Data selected 31](#_Toc2080091764)

[2.39.2 Annexes 31](#_Toc1688013091)

[2.39.3 Dashboard usage 31](#_Toc740454814)

[2.40 System Technical Budget Tables - Archiving🔗 31](#_Toc882321521)

[2.40.1 Data selected 31](#_Toc906292162)

[2.40.2 Annexes 31](#_Toc1920602264)

[2.40.3 Dashboard usage 31](#_Toc1686150956)

[2.41 System Technical Budget Tables - Dissemination🔗 31](#_Toc1134152101)

[2.42 System Technical Budget Tables - Production🔗 31](#_Toc1977390883)

[2.42.1 Data selected 31](#_Toc1059035475)

[2.42.2 Annexes 31](#_Toc1233020576)

[2.42.3 Dashboard usage 31](#_Toc1539270069)

[2.43 System Technical Budget Thresholds🔗 31](#_Toc752434727)

[2.44 LTA Alignement🔗 31](#_Toc956467879)

[2.45 Acquisition Timeliness🔗 31](#_Toc1021748093)

[2.46 ADG Timeliness🔗 31](#_Toc1322551487)

[2.47 DD Timeliness🔗 31](#_Toc535531817)

[2.47.1 DDs Timeliness 31](#_Toc1428549120)

[2.48 LTA Timeliness🔗 31](#_Toc274648474)

[2.48.1 LTAs Timeliness 31](#_Toc1308514930)

[2.49 PRIP-LTA Timeliness🔗 31](#_Toc1742968709)

[2.49.1 LTAs Timeliness 31](#_Toc550352587)

[2.50 S1 E2E Timeliness (Disseminated from Sensing)🔗 31](#_Toc1402613872)

[2.51 S1 E2E Timeliness (Production from Sensing)🔗 31](#_Toc1576878945)

[2.52 S1 E2E Timeliness🔗 31](#_Toc534055784)

[2.53 S2 E2E Timeliness (Disseminated from Sensing)🔗 31](#_Toc927160381)

[2.54 S2 E2E Timeliness (Production from Sensing)🔗 31](#_Toc1011881512)

[2.55 S2 E2E Timeliness🔗 31](#_Toc1450159327)

[2.56 S3 E2E Timeliness (Disseminated from Sensing)🔗 31](#_Toc1861610725)

[2.57 S3 E2E Timeliness (Production from Sensing)🔗 31](#_Toc1507788370)

[2.58 S5 E2E Timeliness (Disseminated from Sensing)🔗 31](#_Toc433771636)

[2.59 S5 E2E Timeliness (Production from Sensing)🔗 31](#_Toc232331963)

[2.60 Services Timeliness & Production time🔗 31](#_Toc1914095959)

[2.61 Satellite Unavailability Reports🔗 31](#_Toc542199737)

[2.62 Available Data Volume (CADIP)🔗 31](#_Toc1687460429)

[2.63 Available Data Volume (XBIP / EDRS)🔗 31](#_Toc500559976)

[2.64 Golden rules & Data flow🔗 31](#_Toc693100314)

[2.65 LTA Usage🔗 31](#_Toc88270423)

[2.66 Products Data Volume and Count🔗 31](#_Toc2053165764)

[2.67 Products Detailed View (Count Volume and List)🔗 31](#_Toc1395992017)

[2.68 Products Inventory🔗 31](#_Toc1606694397)

[3 Users management 31](#_Toc247119592)

[3.1 Disclamer 31](#_Toc1531853971)

[3.2 User management 31](#_Toc1564639776)

[3.2.1 Roles and permissions 31](#_Toc2130894214)

[3.3 Team management 31](#_Toc938267420)

[3.4 Task shortcut 31](#_Toc731635241)

[3.5 Copy a provisioned dashboard 31](#_Toc371287572)

[4 Skedler 31](#_Toc830277062)

[4.1 License activation 31](#_Toc590654959)

[4.2 Report template creation 31](#_Toc671714878)

[4.3 Report generation 31](#_Toc797269373)

[4.4 Report periodic configuration 31](#_Toc406229375)

[4.5 Notifications 31](#_Toc2110145403)

[5 Alerting 31](#_Toc114358153)

[5.1 smtp configuration 31](#_Toc1321935588)

[5.1.1 Test for email alerting on prod (monitoring) 31](#_Toc834091481)

[5.2 Registering contact point 31](#_Toc80633176)

[5.3 Create rule alert 31](#_Toc338489028)

[5.4 Datasources 31](#_Toc2080677476)

[5.5 Database Model 31](#_Toc1136779448)

[5.6 References 31](#_Toc572472317)

[6 Database model description 31](#_Toc256611993)

[6.1 Nomenclature 31](#_Toc1600468786)

[6.2 Indices 31](#_Toc1084089640)

[7 Engine Configuration 31](#_Toc303374556)

[7.1 Tolerance 31](#_Toc1204044387)

[7.1.1 Configuration example 31](#_Toc1892620285)

[7.1.2 Configuration value example 31](#_Toc1956144449)

[7.1.3 Configuration unit 31](#_Toc75397337)

[8 Monitored interfaces documentation 31](#_Toc1614251057)

# Introduction

This document presents informations about:

* Accessing Omcs monitoring tool
* User managment in Omcs monitoring tool
* Reporting tool usage (Skedler)
* Alerting tool
* Collected and stored datas

## Purpose of the software

Opms is part of Copernicus sentinel system as monitoring and reporting, responsible for the assessment of the global system operability and performances.

The objective is to provide information and statistics on the end-to-end production and dissemination process.

The monitoring takes into account several aspects:

1. Completeness:  
   Omcs determines the expected acquisition, processing and dissemination and then compares it with the actual activities.
2. Timeliness:  
   Omcs checks the time performances of the activities.

### Introduction of the Omcs components and functional concepts

To display informations on Completeness and Timeliness Omcs uses specifically designed Grafana Dashboards.

Omcs collects information from several interfaces for easch sentinel missions.

It consolidates and store these information in a Elasticsearch database.

The consolidated informations are used as source in a Grafana instance.

Specifics dashboards are provides by Omcs to report ands alert about Completeness and Timeliness status.

# Omcs

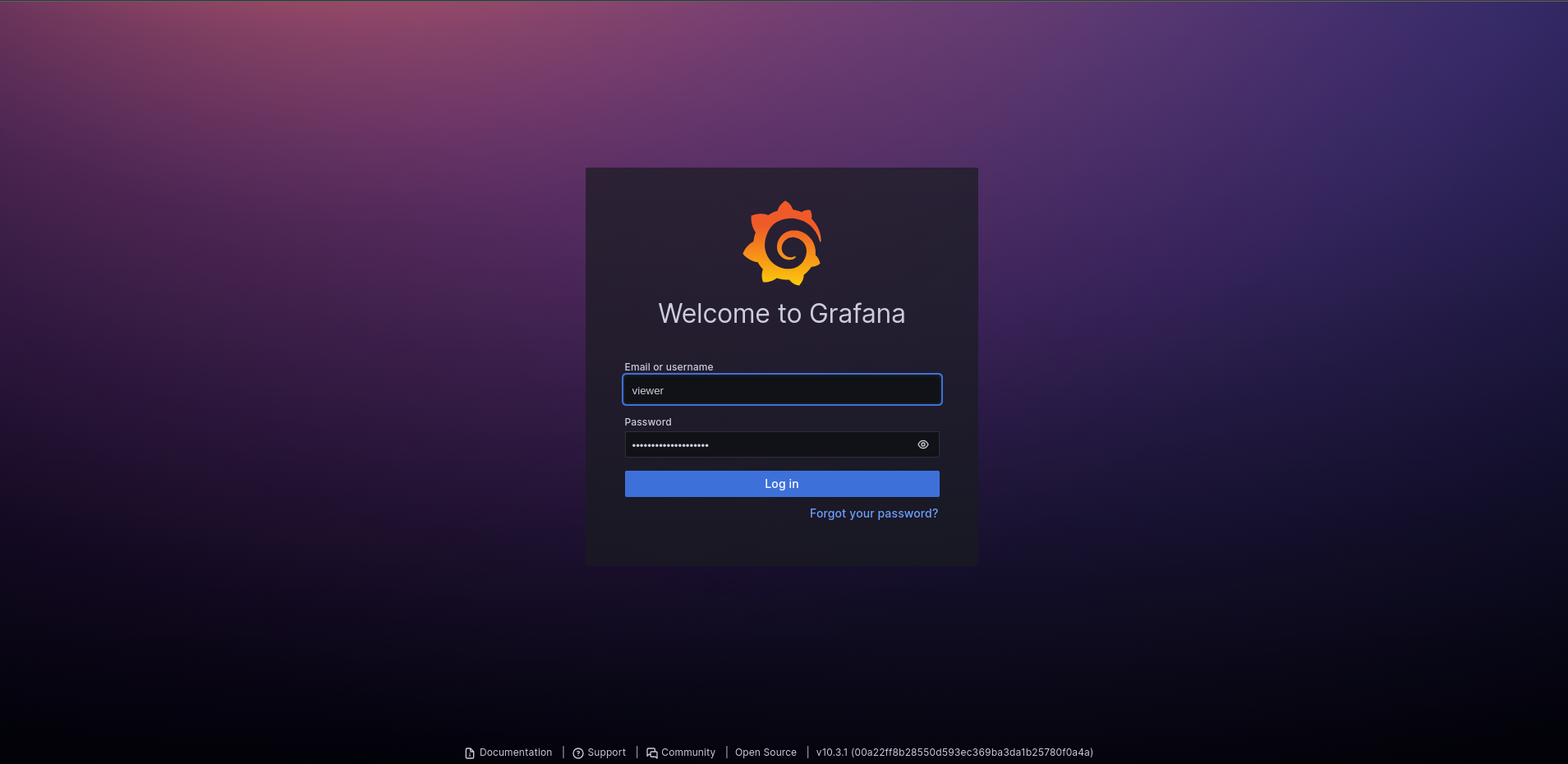
This section describes how to acces to omcs monitoring tool.

Omcs monitoring tool is based on Grafana.

It provides specifics dashboards to monitor Copernicus Sentinel productions.

## Login

In your web browser go to Omcs url : https://omcs.copernicus.eu/grafana.

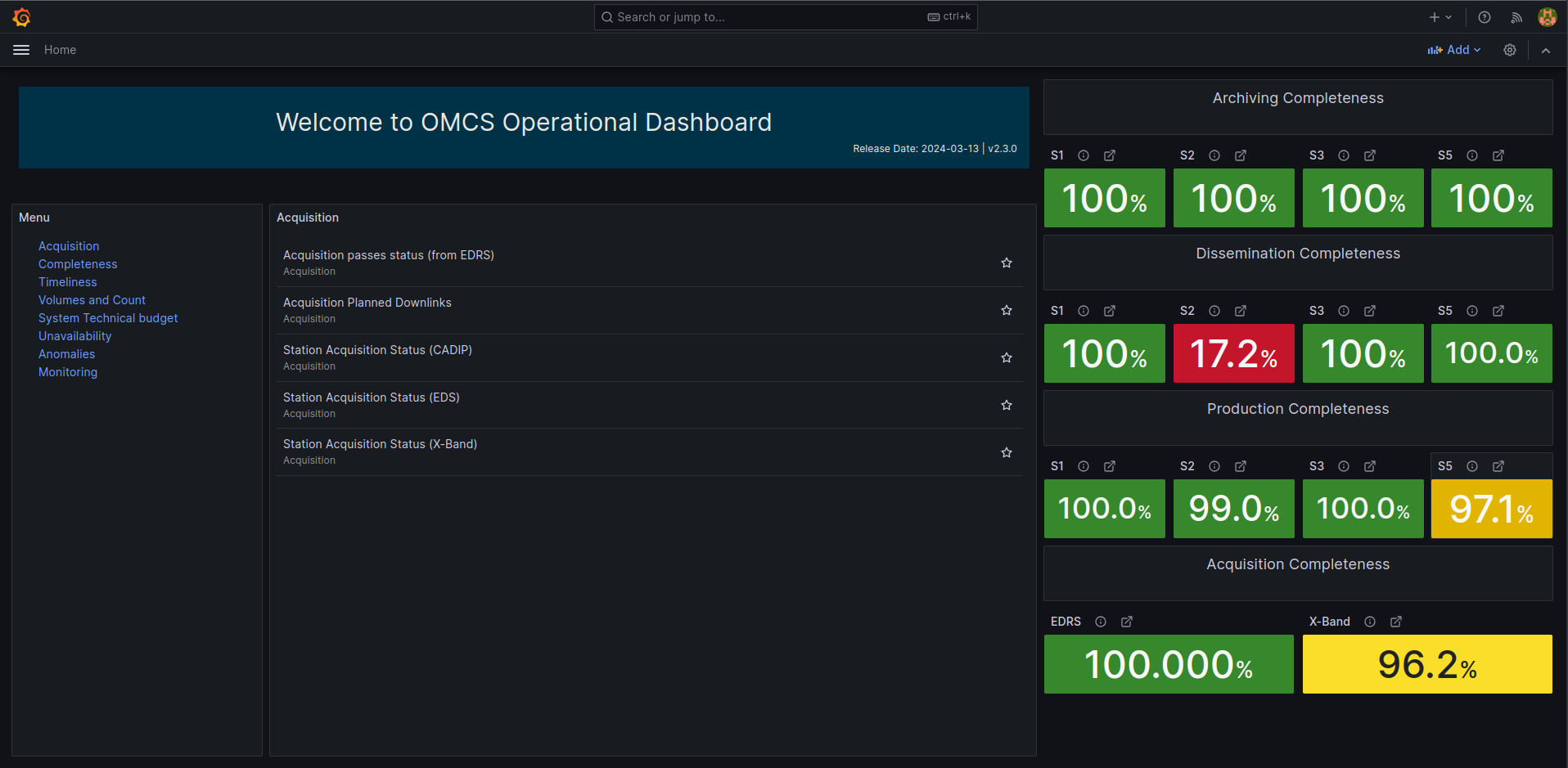


Omcs loging page

Use your credentials to connect.

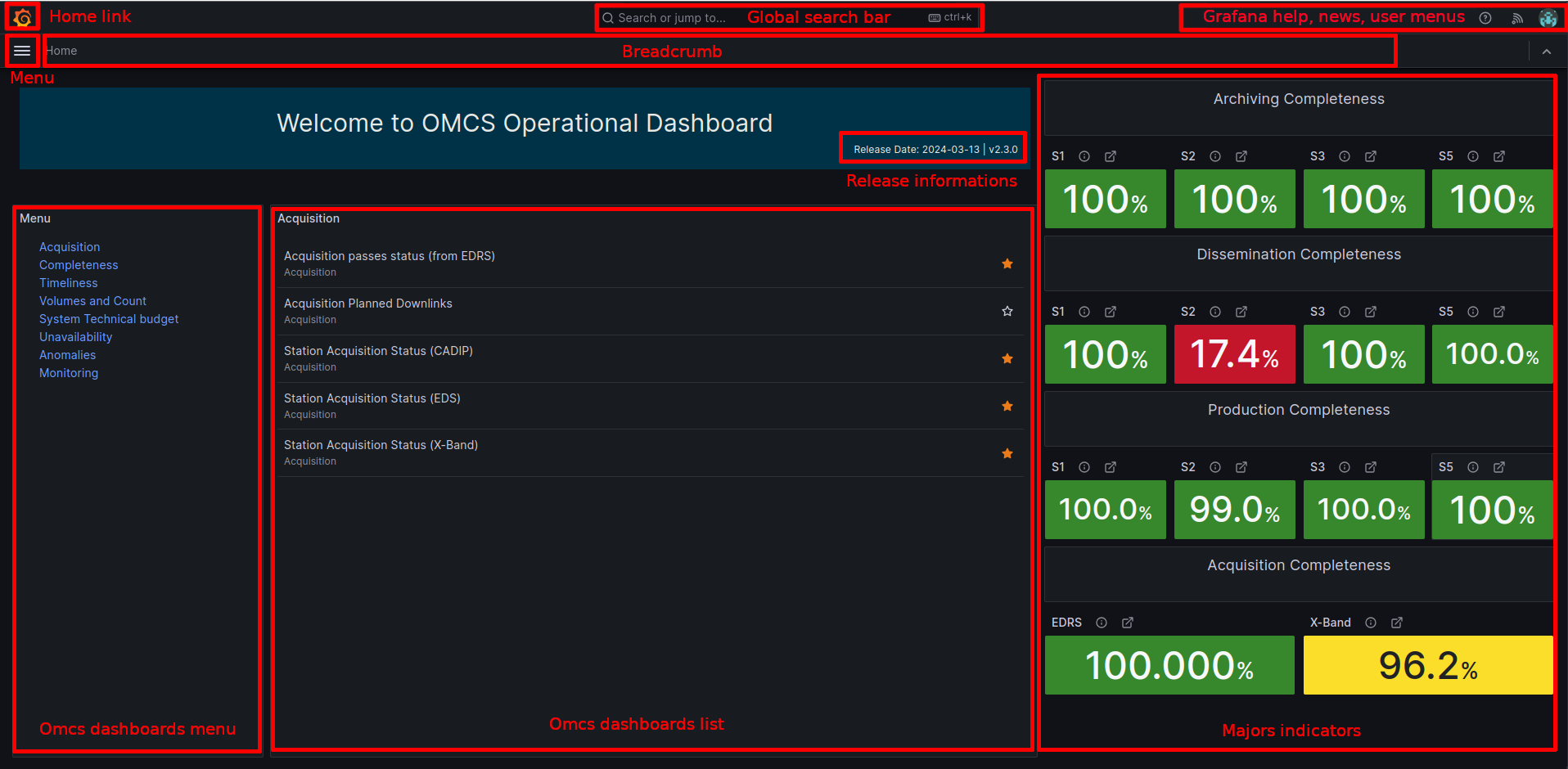
## OMCS home page

You are now connected to the OMCS home page:



Omcs home page

You can find in this page some sections like Home link, Breadcrumb, Menu …

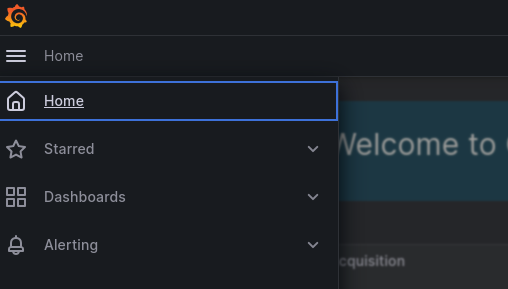


Omcs home page

* Home link, to go to omcs home page (visible on all omcs pages)
* Global search bar, providing links to graphana resources like dashboard, help, …
* Grafana help link.
* Grafana news link.
* User menu link.
* Menu buton, display Grafana menu.
* Bread crum bar.
* Release informations (release date, version).
* Omcs dashboards menu, links to main topics dashboards lists.
* Omcs dashboards list, list of omcs dashboards in the selected topics.
* Majors indicators, displayin status on severals items.

## Menu

The menu provider is the Grafana standard menu.



Omcs menu

It provides services to:

* Find dashboards:
  + Stared display the list of bookmarked dashboards.
  + Browse dashboards display a page displaying dashboard arborescence.
* Alerting:
  + Configuration of alerts.

## Dashboards

### Omcs dashboards organisation

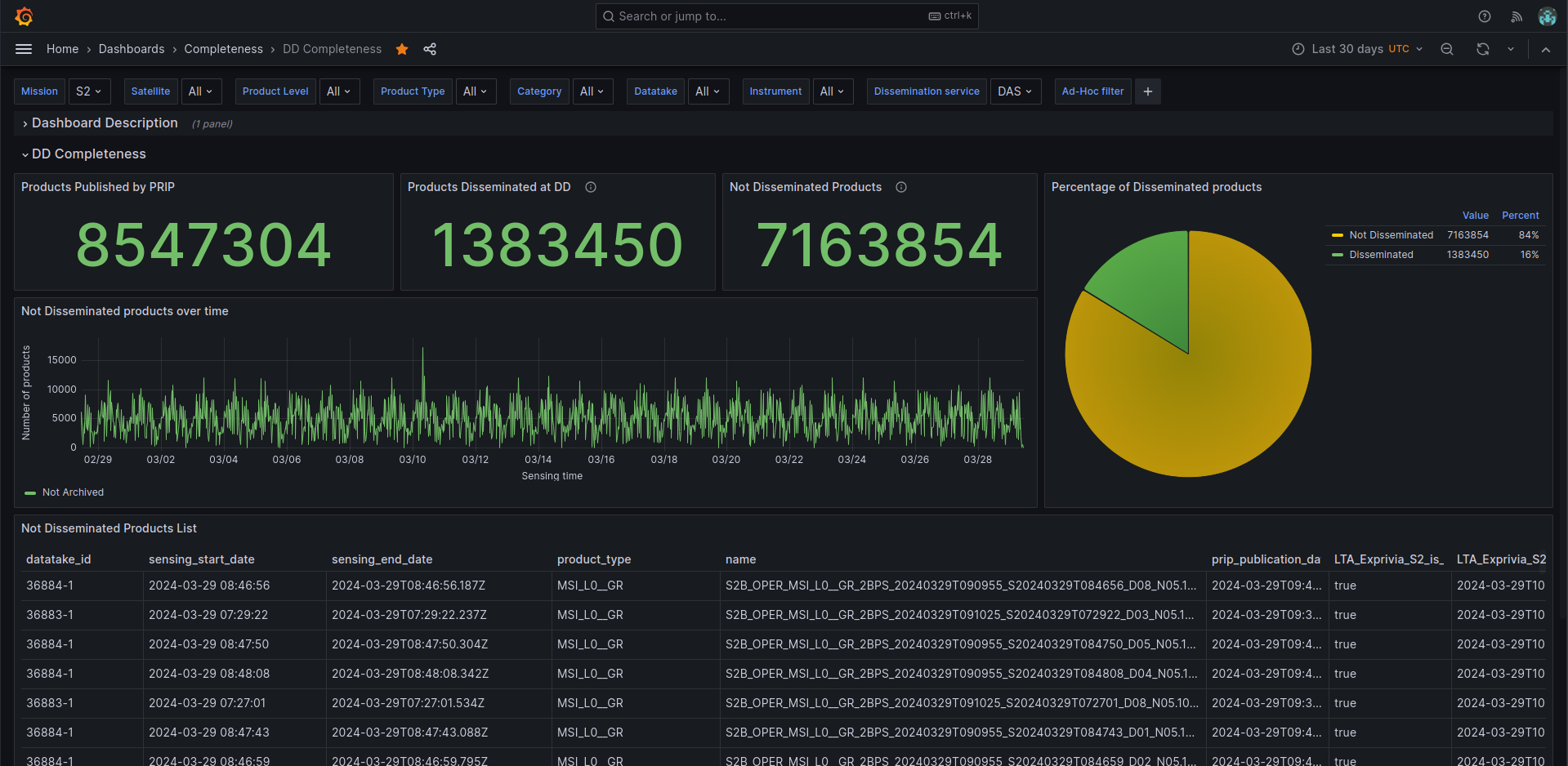
Omcs Dashboards are organized on topics:

* Acquisition, provides information about sentinels mission acquisitions pass, plan, …
* Completeness, provides information about sentinels mission products completenesses, …
* Timeliness, provides information about sentinels mission products timelinesses …
* Volumes\_Count, provides information about sentinels mission production volumes, …
* System Technical budget, provides information about sentinels mission STB, …
* Unavailability, provides information about sentinels mission satellites availability, …
* Anomalies, provides information about anomalies Cams issues and their links to production,…
* Monitoring, provides Interface monitoring information about sentinels mission monitored interfaces status, …

Details are provided chapter **OMCS Dashboard Description**.

### Omcs dashboards usage

The figure below presents an Omcs dashboard:

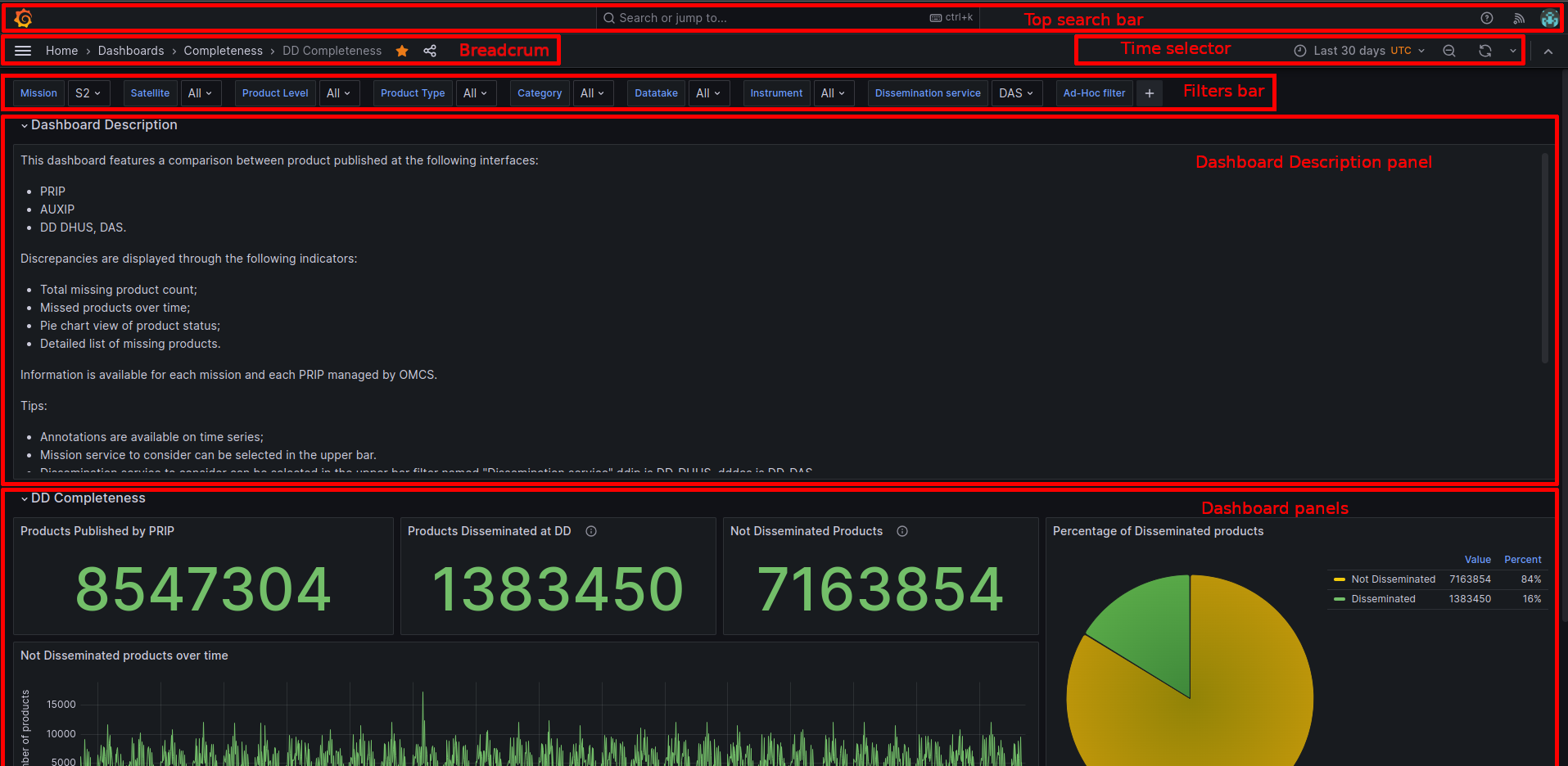


Omcs dashboard

Omcs dashboards presents generally some tools bars, filters selectors, the Grafana time selector, dashboard description.

From top to bottom: - Top search bar, allow grafana navigation, link to home page, global search selector, grafana help and news links and user menu link. - The breadcrum (for navigation) and the time selector. - The filter bar list the specifics filters (designed for the dashboard sepecificaly) and in severals cases the Ad-Hock filter. - The Dashboard description panel (colapsed by default). - The Dashboard specifics panels.

The figure below presents the same Omcs dashboard explained:



Omcs dashboard explained

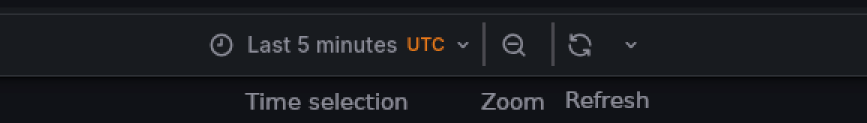
## Dashboards Panels and Datasources

This section present a quick description of the datasources used in dashboards panels, a complete description is disponible on the [grafana web site](https://grafana.com/docs/grafana/latest/datasources/) .

Data sources are the data providers of the panels, in omcs context they are generaly elasticsearch datasource pointing to omcs elasticsearch indices. Theses datasources are filtered on time and on specifics filters using varriables in queries. Theses filterings variables could be set using Time and Filter selectors. ## Time selector usage

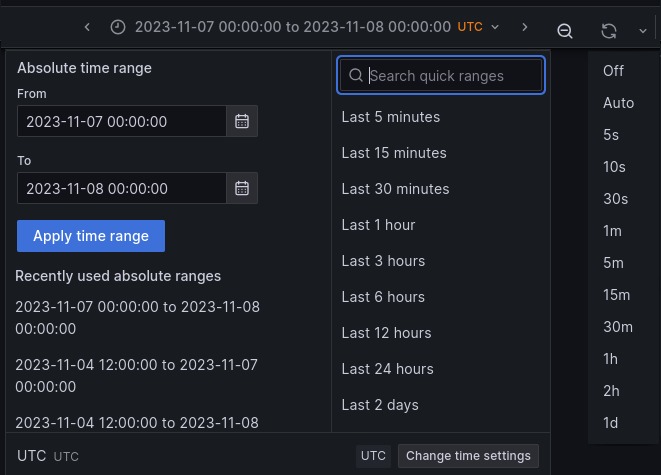
This section present a quick description of the time selector, a complete description is disponible on the [grafana web site](https://grafana.com/docs/grafana/latest/dashboards/use-dashboards/" \l "set-dashboard-time-range) .

Datasources have a time reference field, times selection filter the queries on this time field. It provides samrts function to select time range, time zoom and refreshing dashboard on time changes.



Time selector

Clicking on Time seletion part will display an avanced tool to set time range.



Time selector tools

## Filters selector usage

This section presents a quick description of the filter selector, a complete description is disponible on the [grafana web site](https://grafana.com/docs/grafana/latest/dashboards/variables/) .

The figure below presents a Filters selector bar, in this case there is a set of filters (that could be linked to others) and the Ad-Hoc filter .

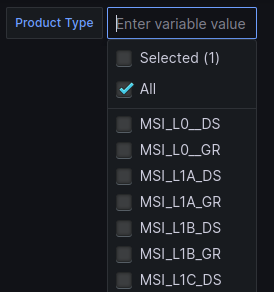
Filters selector bar ### Specifics filters usage.

Use the drop down box to select values filtereds.

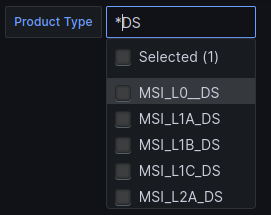
Drop down box:



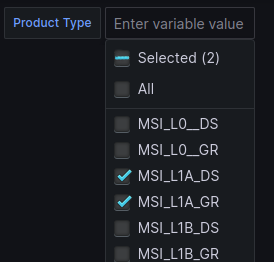
Drop down box selected:



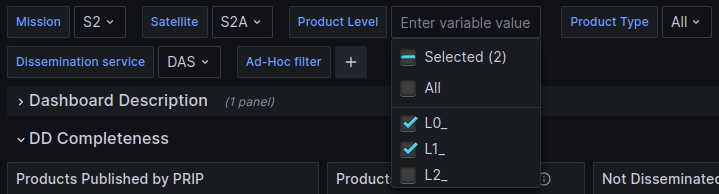
Expresion filter:

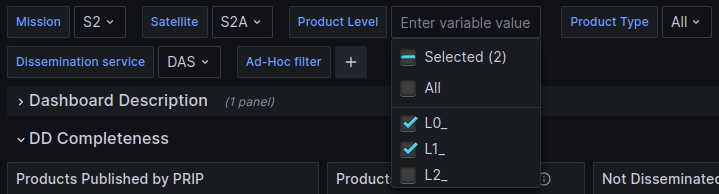


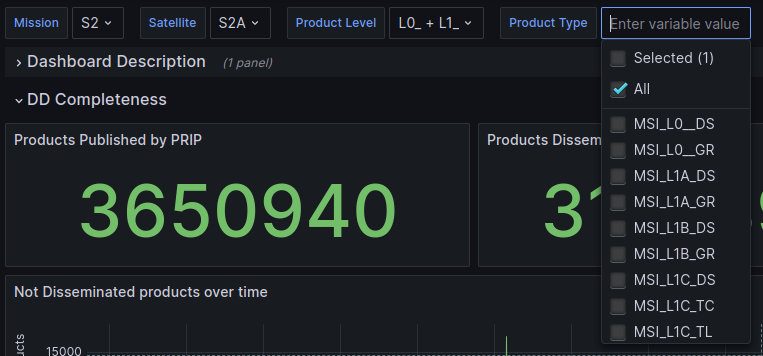
Multiples selection:



Specifics filters could be chained, ie some filterings selection could reduce the set of values disponibles in others selectors. In this exemple the list of ***Product types*** displayed depends on selected ***Product Level***,***Satellite*** and ***Mission*** .







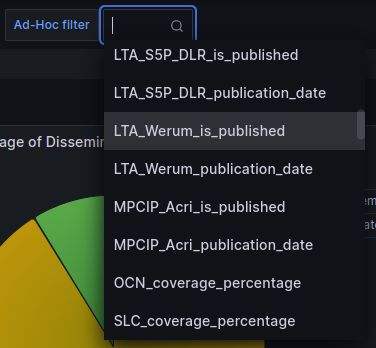
### Ad-hoc filter usage.

This filter is a generic filter, its impacts all the panels queries of the active dashboard it allow complex filtering on the queries results. You cans set a serie of Ad-Hoc filters by clicking on the + sign.

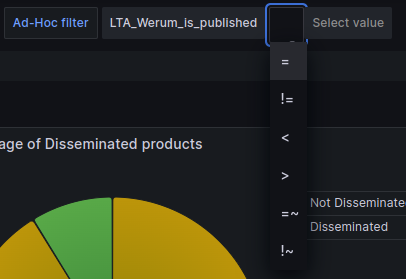
Add Ad-Hoc filter:



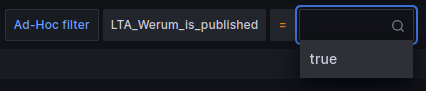
Allow selection of query results fields:



Allow selection of opperators:



Allow set of selecteds values:



Ad-Hoc filter setted:



## Acquisition passes status (from EDRS)[🔗](https://omcs.copernicus.eu/grafana/d/KoNYADm4z/acquisition-passes-status-from-edrs)

**Section**: Acquisition

**Description**:

This dashboard features Acquisition passes status.

Information is available for the following missions: S1 and S2.

Time reference for this dashboard is : planned\_link\_session\_start

Report Type Logic : - If a document has been extracted from a daily report but not from a weekly or monthly report, it will be visible if ‘daily’ is selected - If a document has been extracted from a weekly report but not from a monthly report, il will be visible if ‘weekly’ is selected - If the same document has been extracted from multiple source, it will be available through the best source. Eg: To see a document retrieved from a weekly and a monthly source, you have to select ‘monthly’ - 2 document are considered equal for the report\_type logic if they have the same link\_session\_id and the same ground\_station - It is possible to find where the document originate from through the field ‘report\_name\_daily’ ‘report\_name\_weekly’ and ‘report\_name\_monthly’

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Acquisition Planned Downlinks[🔗](https://omcs.copernicus.eu/grafana/d/RIn0sd37z/acquisition-planned-downlinks)

**Section**: Acquisition

**Description**:

This dashboard features Planned Downlink Acquisition.

Information is taken from Mission Plannings.

Information is available for the following missions: S1 and S2.

Time reference for this dashboard is : effective\_downlink\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Station Acquisition Status (CADIP)[🔗](https://omcs.copernicus.eu/grafana/d/zaqHaGu4z/station-acquisition-status-cadip)

**Section**: Acquisition

**Description**:

This dashboard features Downlink Acquisition status.

Information is taken from station reports made available through CADIP interface.

Information is available for the following missions: S1, S2 and S3.

Time reference for this dashboard is : planned\_data\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Station Acquisition Status (EDS)[🔗](https://omcs.copernicus.eu/grafana/d/y7tck1D4k/station-acquisition-status-eds)

**Section**: Acquisition

**Description**:

This dashboard features Downlink Acquisition Status.

Information is taken from station reports available from EDS ftp server.

Information is available for the missions S1 and S2.

Time reference for this dashboard is : downlink\_start\_time

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Station Acquisition Status (X-Band)[🔗](https://omcs.copernicus.eu/grafana/d/GP4Naujnk/station-acquisition-status-x-band)

**Section**: Acquisition

**Description**:

This dashboard features Downlink Acquisition status.

Information is taken from station reports made available through XBAND interface.

Information is available for the following missions: S1, S2, S3 and S5

Time reference for this dashboard is : planned\_data\_start

Report Type Logic : - If a document has been extracted from a daily report but not from a weekly or monthly report, it will be visible if ‘daily’ is selected - If a document has been extracted from a weekly report but not from a monthly report, il will be visible if ‘weekly’ is selected - If the same document has been extracted from multiple source, it will be available through the best source. Eg: To see a document retrieved from a weekly and a monthly source, you have to select ‘monthly’ - 2 document are considered equal for the report\_type logic if they have the same link\_session\_id and the same ground\_station - It is possible to find where the document originate from through the field ‘report\_name\_daily’ ‘report\_name\_weekly’ and ‘report\_name\_monthly’ - Report Type Monthly and Weekly are available only for S5

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Anomaly correlation follow-up[🔗](https://omcs.copernicus.eu/grafana/d/cDsbRok4z/anomaly-correlation-follow-up)

**Section**: Anomalies

**Description**:

This dashboard features the Anomaly correlation follow-up

Information is available for the following missions: S1, S2, S3 and S5

Information is displayed through the following panels:

* Number of observation issue linked to an anomaly

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## CAMS issue list[🔗](https://omcs.copernicus.eu/grafana/d/j-DkP4Cnz/cams-issue-list)

**Section**: Anomalies

**Description**:

This dashboard features the list CAMS issue retrieved from JIRA.

Information is displayed through the following panels: - The creation of tickets is displayed in the form of a time series with the number of tickets created for each time frame; - List of tickets .

Note: the time range filter on the tickets updated over the period, so if the ticket was created and updated outside this period it will not be visible

Time reference for this dashboard is : updated

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## ADG Completeness (vs external providers)[🔗](https://omcs.copernicus.eu/grafana/d/adg-completeness/adg-completeness-vs-external-providers)

**Section**: Completeness

**Description**:

This dashboard features a completeness by product\_type between product published at AUXIP and theorical daily production

Details of theorical production used in dashboard :

S1:json[{'product\_type': 'AUX\_WND', 'product\_type\_expected': 182.0, 'timeliness': '10 min'}, {'product\_type': 'AUX\_ICE', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'AUX\_TEC', 'product\_type\_expected': 1.0, 'timeliness': 'N/A'}, {'product\_type': 'AUX\_TRO', 'product\_type\_expected': 4.0, 'timeliness': '30 min'}, {'product\_type': 'MPL\_ORBPRE', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'MPL\_ORBRES', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'MPL\_TLEPRE', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_B', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_C', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_D', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_E', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_F', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'AUX\_PREORB', 'product\_type\_expected': 14.0, 'timeliness': '10 min'}, {'product\_type': 'AUX\_RESORB', 'product\_type\_expected': 14.0, 'timeliness': '10 min'}, {'product\_type': 'AUX\_POEORB', 'product\_type\_expected': 1.0, 'timeliness': '10 min'}]

S2:json[{'product\_type': 'AUX\_ECMWFD', 'product\_type\_expected': 2.0, 'timeliness': '10 min'}, {'product\_type': 'AUX\_CAMSFO', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'AUX\_UT1UTC', 'product\_type\_expected': 0.14285714285714285, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_A', 'product\_type\_expected': 6.0, 'timeliness': '30 min'}, {'product\_type': 'TLM\_\_REQ\_B', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'REP\_\_CHF\_\_', 'product\_type\_expected': 0.14285714285714285, 'timeliness': '30 min'}, {'product\_type': 'REP\_\_FCHF\_\_', 'product\_type\_expected': 0.14285714285714285, 'timeliness': '30 min'}, {'product\_type': 'MPL\_ORBPRE', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'MPL\_ORBRES', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}]

S3:json[{'product\_type': 'AX\_\_\_MF1\_AX', 'product\_type\_expected': 8.0, 'timeliness': '10 min'}, {'product\_type': 'AX\_\_\_MFA\_AX', 'product\_type\_expected': 4.0, 'timeliness': '10 min'}, {'product\_type': 'AX\_\_\_MA1\_AX', 'product\_type\_expected': 4.0, 'timeliness': '10 min'}, {'product\_type': 'AX\_\_\_MF2\_AX', 'product\_type\_expected': 8.0, 'timeliness': '10 min'}, {'product\_type': 'AX\_\_\_MA2\_AX', 'product\_type\_expected': 4.0, 'timeliness': '10 min'}, {'product\_type': 'SR\_\_\_MDO\_AX', 'product\_type\_expected': 2.0, 'timeliness': '10 min'}, {'product\_type': 'SR\_2\_PMPSAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_RMO\_AX', 'product\_type\_expected': 4.0, 'timeliness': '10 min'}, {'product\_type': 'SR\_2\_PMO\_AX', 'product\_type\_expected': 4.0, 'timeliness': '10 min'}, {'product\_type': 'SR\_2\_POL\_AX', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_PGI\_AX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_RGI\_AX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_1\_USO\_AX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_\_\_MGNSAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SL\_2\_SSTAAX', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'SL\_2\_DIMSAX', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'AX\_\_\_FPO\_AX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'AX\_\_\_FRO\_AX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_PCPPAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_PMPPAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_\_\_MGNPAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_\_\_POEPAX', 'product\_type\_expected': 2.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_SIFNAX', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}, {'product\_type': 'SR\_2\_SIFSAX', 'product\_type\_expected': 1.0, 'timeliness': '30 min'}]

Time reference for this dashboard is : publication\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## AUXIP-LTA Completeness[🔗](https://omcs.copernicus.eu/grafana/d/MxhCdfbnz/auxip-lta-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - AUXIP; - LTA.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each LTA managed by OMCS.

Tips: - Annotations are available on time series; - Mission and LTA service to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## AUXIP-MPCIP Completeness[🔗](https://omcs.copernicus.eu/grafana/d/ae161631-ec00-4999-a942-b601956d6998/auxip-mpcip-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - AUXIP - MPCIP

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each AUXIP/MPCIP managed by OMCS.

Tips: - Annotations are available on time series; - Mission and LTA service to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## DD Completeness[🔗](https://omcs.copernicus.eu/grafana/d/yDEHKjS4k/dd-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - PRIP - AUXIP - DD DHUS, DAS.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each PRIP managed by OMCS.

Tips: - Annotations are available on time series; - Mission service to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service” ddip is DD\_DHUS, dddas is DD\_DAS.

This Dashboard use the [Copernicus Ground Segment Sentinels Data Flow Configuration V1.2](../../../../../../../../grafana/d/MfmL_E4Vz/dataflow-configuration%3ForgId=1) as reference

Note : Some product category are not disseminated to DHUS :

CDSE started to ingest the S-1 and S-3 engineering data from 12.09.2023 10:00 CEST in order to avoid misunderstanding on the completeness. https://esa-cams.atlassian.net/browse/PDGSMNT-3234

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## LTA Completeness[🔗](https://omcs.copernicus.eu/grafana/d/KnP3Me7Vk/lta-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - AUXIP; - LTA.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each LTA managed by OMCS.

For S5P Satellite, L1 & L2 products are only archived to DLR and not to CloudFerro LTA

Tips: - Annotations are available on time series; - Mission and LTA service to consider can be selected in the upper bar.

This Dashboard use the [Copernicus Ground Segment Sentinels Data Flow Configuration V1.2](../../../../../../../../grafana/d/MfmL_E4Vz/dataflow-configuration%3ForgId=1) as reference

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## PRIP-DD Completeness (product count)[🔗](https://omcs.copernicus.eu/grafana/d/YfrPYWsnk/prip-dd-completeness-product-count)

**Section**: Completeness

**Description**:

This dashboard compares products Disseminated at the DHUS with against Products Published at PRIP.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## PRIP-DD Completeness[🔗](https://omcs.copernicus.eu/grafana/d/ODRp3_Q7k/prip-dd-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - PRIP; - DD DHUS.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each PRIP managed by OMCS.

Tips: - Annotations are available on time series; - Mission service to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## PRIP-LTA Completeness (All LTA)[🔗](https://omcs.copernicus.eu/grafana/d/jCljKui4z/prip-lta-completeness-all-lta)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - PRIP; - LTA.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each PRIP/LTA managed by OMCS.

Tips: - Annotations are available on time series; - Mission to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## PRIP-LTA Completeness[🔗](https://omcs.copernicus.eu/grafana/d/XxhCdfanz/prip-lta-completeness)

**Section**: Completeness

**Description**:

This dashboard features a comparison between product published at the following interfaces: - PRIP; - LTA.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each PRIP/LTA managed by OMCS.

Tips: - Annotations are available on time series; - Mission and LTA service to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S1 Datatake Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/sStGi_ynz/s1-datatake-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on a single datatake of S1 mission.

Comparison is done between the following: - Mission Planning (MP): Planned products; - PRIP: Produced products.

L1\_SLC and L2\_OCN expected products are determined with intersection of footprints taken from RAW\_0S.

L0 products expected duration are based on L0 sensing duration taken from MP. L1/L2 products expected duration are based on Observation Duration taken from MP (except for RF\_RAW\_\_0S products that have an expected duration of 2.8s).

Tips: - Best approach is to start in Production Completeness dashboard and select one datatake to explore from there; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S1 Production Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/9_6v0ss7z/s1-production-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on S1 mission.

Comparison is done between the following: - Mission Planning (MP): Planned products; - PRIP: Produced products.

L1\_SLC and L2\_OCN expected products are determined with intersection of footprints taken from RAW\_0S.

L0 products expected duration are based on L0 sensing duration taken from MP. L1/L2 products expected duration are based on Observation Duration taken from MP (except for RF\_RAW\_\_0S products that have an expected duration of 2.8s).

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S2 Datatake Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/sStGi_ymz/s2-datatake-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on a single datatake of S2 mission.

Comparison is done between the following: - Mission Planning (MP): Planned products; - PRIP: Produced products.

TL / TC expected products are determined by intersection of footprints taken from MSI\_L1C\_DS.

Expected Granules (MSI\_L0\_*GR) are based on the number of scene of the level multiplied per 12. (TODO: use MSI*??\_DS).

L0\_DS products expected duration are based on Observation Duration taken from MP. L1B\_DS, L1C\_DS and L2A products expected duration are based on Observation Duration of MP minus 2\*3,608s (duration of one scene).

Finally, if scene count is inferior to 3, L0 products are the only ones expected.

Tips: - Best approach is to start in Production Completeness dashboard and select one datatake to explore from there; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S2 Production Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/9_6v0ss8z/s2-production-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on S2 mission.

Comparison is done between the following: - Mission Planning (MP): Planned products; - PRIP: Produced products.

TL / TC expected products are determined by intersection of footprints taken from MSI\_L1C\_DS.

Expected Granules (MSI\_L0\_*GR) are based on the number of scene of the level multiplied per 12. (TODO: use MSI*??\_DS).

L0\_DS products expected duration are based on Observation Duration taken from MP. L1B\_DS, L1C\_DS and L2A products expected duration are based on Observation Duration of MP minus 2\*3,608s (duration of one scene).

Finally, if scene count is inferior to 3, L0 products are the only ones expected.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S3 Datatake Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/tStGj_ynz/s3-datatake-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on a single datatake of S3 mission.

Comparison is done using the following: - PRIP: Produced products.

Datatake ID are built from: - Satellite number; - Cycle number; - Relative orbit number.

When one PRIP product is published, every expected product related to this datatake is created.

Missing products are displayed in purple.

Tips: - Best approach is to start in Production Completeness dashboard and select one datatake to explore from there; - Satellite to consider can be selected in the upper bar (has to be the same as the datatake ID prefix).

Note: - SRAL L2, VG1 and V10 products are not included in the completeness computation since these products are not systematically produced at each orbit (production is not predictable).

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S3 Production Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/T_6v1ss8z/s3-production-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on S3 mission.

Comparison is done using the following: - PRIP: Produced products.

Datatake ID are built from: - Satellite number; - Cycle number; - Relative orbit number.

When one PRIP product is published, every expected product related to this datatake is created.

Missing products are displayed in purple.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Note: - SRAL L2, VG1 and V10 products are not included in the completeness computation since these products are not systematically produced at each orbit (production is not predictable).

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S5 Datatake Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/3lDUD2gVz/s5-datatake-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on a single datatake of S5 mission.

Comparison is done using the following: - PRIP: Produced products.

Datatake ID are built from: - Satellite number; - Absolute orbit number.

When one PRIP product is published, every expected product related to this datatake is created.

Missing products are displayed in purple.

Tips: - Best approach is to start in Production Completeness dashboard and select one datatake to explore from there; - Satellite to consider can be selected in the upper bar (has to be the same as the datatake ID prefix).

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S5 Production Completeness (Produced vs Planned)[🔗](https://omcs.copernicus.eu/grafana/d/eI1yShRVz/s5-production-completeness-produced-vs-planned)

**Section**: Completeness

**Description**:

This dashboard features Completeness computation on S5 mission.

Comparison is done using the following: - PRIP: Produced products.

Datatake ID are built from: - Satellite number; - Absolute orbit number.

When one PRIP product is published, every expected product related to this datatake is created.

Missing products are displayed in purple.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : observation\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## DD Completeness (Manual Parameter Selection)[🔗](https://omcs.copernicus.eu/grafana/d/d9690bb2-f8fb-4b79-98a8-6b01426bf17b/dd-completeness-manual-parameter-selection)

**Section**: Debug

**Description**:

This dashboard features a comparison between product published at the following interfaces: - PRIP; - DD DHUS, DAS.

Discrepancies are displayed through the following indicators: - Total missing product count; - Missed products over time; - Pie chart view of product status; - Detailed list of missing products.

Information is available for each mission and each PRIP managed by OMCS.

Tips: - Annotations are available on time series; - Mission service to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service” ddip is DD\_DHUS, dddas is DD\_DAS.

This Dashboard use the [Copernicus Ground Segment Sentinels Data Flow Configuration V1.2](../../../../../../../../grafana/d/MfmL_E4Vz/dataflow-configuration%3ForgId=1) as reference

Note : Some product category are not disseminated to DHUS :

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Product Inventory - Origin Date[🔗](https://omcs.copernicus.eu/grafana/d/bbf187f7-7fcf-4000-b225-738cb7b88ffc/product-inventory-origin-date)

**Section**: Debug

**Description**:

This dashboard features information on:

Detailed list of origin dates for a specific product from Product Inventory Dashboard Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Interface monitoring Global view[🔗](https://omcs.copernicus.eu/grafana/d/F58sJjg4k/interface-monitoring-global-view)

**Section**: Interface\_Monitoring

**Description**:

This dashboard features an overview of the interfaces managed by OMCS.

Status is displayed with the following indicators: - A dashboard of interface with its status (green: OK, red: FAILED); - A detailed list of interface unavailability; - Timeline of interface status.

Each interface is monitored through a periodic availability check.

Time reference for this dashboard is : probe\_time\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Diagrams[🔗](https://omcs.copernicus.eu/grafana/d/6EM0vcK4z/system-technical-budget-diagrams)

**Section**: STB

**Description**:

The System Technical Budget Diagrams is based on

* the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2).
* the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Diagrams the data published at PRIP, LTA or DD and DSIB files are selected.

* Section Data Aquisition data from DSIB files.
* Section Data Production data published at PRIP.
* Section Data Preservation data published at LTA.
* Section Data Distribution data published at DD.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

Rmq : There is today no S5 L0 data published at prip.

### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **Yearly downlinked data volume (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |

##### For panel **Yearly downlinked data number**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |

##### For panel **Yearly NTC Production volume of products (L1 & L2) S1, S3, S5P and S2 (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NTC | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2022 | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NT | 2022 | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2022 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S1 |  |  | NTC | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2023 | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NT | 2023 | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2023 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |

##### For panel **Yearly NTC Production number of products (L1 & L2) S1, S3, S5P and S2**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NTC | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2022 | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NT | 2022 | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2022 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S1 |  |  | NTC | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2023 | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NT | 2023 | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2023 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |

##### For panel **Yearly NRT Production volume of products (L1 & L2) S1, S3, S5P (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2022 | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_\_\_ |
| S3 |  |  | ST | 2022 | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN\_**, SY\_1\_MISR**, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 |  |  | NT | 2022 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2022 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2023 | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_\_\_ |
| S3 |  |  | ST | 2023 | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN\_**, SY\_1\_MISR**, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 |  |  | NT | 2023 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2023 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

##### For panel **Yearly NRT Production number of products (L1 & L2) S1, S3, S5P**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2022 | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_\_\_ |
| S3 |  |  | ST | 2022 | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN\_**, SY\_1\_MISR**, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 |  |  | NT | 2022 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2022 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2023 | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_\_\_ |
| S3 |  |  | ST | 2023 | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN\_**, SY\_1\_MISR**, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 |  |  | NT | 2023 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2023 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

##### For panel **Yearly NTC Production volume of products S1, S3, S5P (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NTC | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S3 |  |  | NT | 2022 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2022 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2022 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S1 |  |  | NTC | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S3 |  |  | NT | 2023 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2023 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2023 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

##### For panel **Yearly NTC Production number of products S1, S3, S5P**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NTC | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S3 |  |  | NT | 2022 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2022 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2022 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S1 |  |  | NTC | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S3 |  |  | NT | 2023 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_ |
| S5 |  |  | OFFL | 2023 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2023 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

##### For panel **Yearly NTC Production volume of products S2 (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S2 |  |  | NOMINAL | 2022 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | 2023 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |

##### For panel **Yearly NTC Production number of products S2**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S2 |  |  | NOMINAL | 2022 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | 2023 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |

##### For panel **Yearly NRT Production volume of products S1, S3, S5P (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2022 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | ST | 2022 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NT | 2022 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2022 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2023 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | ST | 2023 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NT | 2023 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2023 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

##### For panel **Yearly NRT Production number of products S1, S3, S5P**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2022 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | ST | 2022 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NT | 2022 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2022 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S3 |  |  | NR,AL | 2023 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | ST | 2023 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NT | 2023 | SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2023 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

##### For panel **L0 Cumulative volume of products(TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 |  |  | NTC | 2022 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S2 |  |  | NOMINAL | 2022 | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S3 |  |  | NR,AL | 2022 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 |  |  | NT | 2022 | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 |  |  | ST | 2022 | SR\_0\_SRA\_\_\_ |
| S5 |  |  | OPER | 2022 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 |  |  | NTC | 2023 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S2 |  |  | NOMINAL | 2023 | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S3 |  |  | NR,AL | 2023 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 |  |  | NT | 2023 | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 |  |  | ST | 2023 | SR\_0\_SRA\_\_\_ |
| S5 |  |  | OPER | 2023 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

##### For panel **L0 Cumulative number of products**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 |  |  | NTC | 2022 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S2 |  |  | NOMINAL | 2022 | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S3 |  |  | NR,AL | 2022 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 |  |  | NT | 2022 | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 |  |  | ST | 2022 | SR\_0\_SRA\_\_\_ |
| S5 |  |  | OPER | 2022 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 |  |  | NTC | 2023 | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S2 |  |  | NOMINAL | 2023 | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S3 |  |  | NR,AL | 2023 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 |  |  | NT | 2023 | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 |  |  | ST | 2023 | SR\_0\_SRA\_\_\_ |
| S5 |  |  | OPER | 2023 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

##### For panel **Yearly Data Distribution published volume of products S1, S3, S5 and S2 (TiB)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  |  | NTC | 2022 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2022 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NR,AL | 2022 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | 2022 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | 2022 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2022 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | 2022 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2022 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S1 |  |  | NRT,NRT-PT | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  |  | NTC | 2023 | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S2 |  |  | NOMINAL | 2023 | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 |  |  | NR,AL | 2023 | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | 2023 | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | 2023 | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S5 |  |  | NRTI | 2023 | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | 2023 | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | 2023 | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

##### For panel **Yearly Data Distribution published number of products S1, S3, S5 and S2 (TiB)**:

@Yearly Data Distribution published number of products S1, S3, S5 and S2 (TiB)@

### Dashboard usage

On left top of the dashboard the mean combobox allow to select mean period:

* none: values for the selected period.
* by day: values are divided by the number of seconds in the selected periode divided by the number of seconds in 1 day.
* by week: values are divided by the number of seconds in the selected periode divided by the number of seconds in 7 day.
* by month: values are divided by the number of seconds in the selected periode divided by the number of seconds in 30 day.
* by year: values are divided by the number of seconds in the selected periode divided by the number of seconds in 365 day.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Schematic View - S1[🔗](https://omcs.copernicus.eu/grafana/d/N9YlQDKVk/system-technical-budget-schematic-view-s1)

**Section**: STB

**Description**:

The System Technical Budget Schematic View - S1 is based on

* the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2).
* the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Schematic View - S1 the data published at PRIP, LTA or DD and DSIB files are selected.

* Section Data Aquisition data from DSIB files.
* Section Data Production data published at PRIP.
* Section Data Preservation data published at LTA.
* Section Data Distribution data published at DD.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

Rmq : There is today no S5 L0 data published at prip.

### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **Yearly Overall Data Flow S1 SATELLITE**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 |  |  | NRT,NRT-PT | ACQ VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  |  | NTC | ACQ VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 |  |  | NRT,NRT-PT | ACQ COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  |  | NTC | ACQ COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L0 | NRT | NRT,NRT-PT | PROD VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT | NRT,NRT-PT | PROD COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L1 | NRT | NRT,NRT-PT | PROD VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NRT | NRT,NRT-PT | PROD COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L0 | NTC | NTC | PROD VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NTC | NTC | PROD COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L1 | NTC | NTC | PROD VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L1 | NTC | NTC | PROD COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L2 | NRT | NRT,NRT-PT | PROD VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NRT | NRT,NRT-PT | PROD COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NTC | NTC | PROD VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 | L2 | NTC | NTC | PROD COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 |  | NRT-NTC | NRT,NRT-PT | PROD TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | PROD TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 |  | NRT-NTC | NRT,NRT-PT | PROD TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | PROD TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | LTA VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | LTA VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | LTA COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | LTA COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | DD VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | DD VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | DD COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | DD COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L1 | NRT-NTC | NRT,NRT-PT | DD VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NTC | DD VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NRT,NRT-PT | DD COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NTC | DD COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L2 | NRT-NTC | NRT,NRT-PT | DD VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NTC | DD VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NRT,NRT-PT | DD COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NTC | DD COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 |  | NRT-NTC | NRT,NRT-PT | DD TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | DD TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 |  | NRT-NTC | NRT,NRT-PT | DD TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | DD TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | DL VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | DL VOL | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NRT,NRT-PT | DL COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L0 | NRT-NTC | NTC | DL COUNT | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L1 | NRT-NTC | NRT,NRT-PT | DL VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NTC | DL VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NRT,NRT-PT | DL COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NRT-NTC | NTC | DL COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L2 | NRT-NTC | NRT,NRT-PT | DL VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NTC | DL VOL | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NRT,NRT-PT | DL COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S1 | L2 | NRT-NTC | NTC | DL COUNT | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 |  | NRT-NTC | NRT,NRT-PT | DL TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | DL TOT VOL | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 |  | NRT-NTC | NRT,NRT-PT | DL TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 |  | NRT-NTC | NTC | DL TOT COUNT | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_OCN\_\_2A, EW\_OCN\_\_2S, EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, RF\_RAW, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_OCN\_\_2A, WV\_OCN\_\_2S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |

Time reference fot this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Schematic View - S2[🔗](https://omcs.copernicus.eu/grafana/d/SIMuwDKVz/system-technical-budget-schematic-view-s2)

**Section**: STB

**Description**:

The System Technical Budget Schematic View - S2 is based on

* the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2).
* the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Schematic View - S2 the data published at PRIP, LTA or DD and DSIB files are selected.

* Section Data Aquisition data from DSIB files.
* Section Data Production data published at PRIP.
* Section Data Preservation data published at LTA.
* Section Data Distribution data published at DD.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

Rmq : There is today no S5 L0 data published at prip.

### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **Yearly Overall Data Flow S2 SATELLITE**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S2 |  |  | NOMINAL | ACQ VOL | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | ACQ COUNT | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L0 |  | NOMINAL | PROD VOL | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L0 |  | NOMINAL | PROD COUNT | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L1C |  | NOMINAL | PROD VOL | MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L1C |  | NOMINAL | PROD COUNT | MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L1B |  | NOMINAL | PROD VOL | MSI\_L1B\_DS, MSI\_L1B\_GR |
| S2 | L1B |  | NOMINAL | PROD COUNT | MSI\_L1B\_DS, MSI\_L1B\_GR |
| S2 | L2A |  | NOMINAL | PROD VOL | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L2A |  | NOMINAL | PROD COUNT | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | PROD TOT VOL | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | PROD TOT COUNT | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L0 |  | NOMINAL | LTA VOL | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L0 |  | NOMINAL | LTA COUNT | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L1C |  | NOMINAL | DD VOL | MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L1C |  | NOMINAL | DD COUNT | MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L2A |  | NOMINAL | DD VOL | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L2A |  | NOMINAL | DD COUNT | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | DD TOT VOL | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | DD TOT COUNT | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L1 |  | NOMINAL | DL VOL | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L1 |  | NOMINAL | DL COUNT | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_ , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L2 |  | NOMINAL | DL VOL | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 | L2 |  | NOMINAL | DL COUNT | MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | DL TOT VOL | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S2 |  |  | NOMINAL | DL TOT COUNT | MSI\_L0\_*DS, MSI\_L0****GR, MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C*** , MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL, MSI\_L2A\_\_\_ , MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Schematic View - S3[🔗](https://omcs.copernicus.eu/grafana/d/-sLXQDFVk/system-technical-budget-schematic-view-s3)

**Section**: STB

**Description**:

The System Technical Budget Schematic View - S3 is based on - the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2). - the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Schematic View - S3 the data published at PRIP, LTA or DD and DSIB files are selected. - Section Data Aquisition data from DSIB files. - Section Data Production data published at PRIP. - Section Data Preservation data published at LTA. - Section Data Distribution data published at DD.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. ( i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

Rmq: There is today no S5 L0 data published at prip. ### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **Yearly Overall Data Flow S3 SATELLITE**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S3 |  |  | NR, AL | ACQ VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | ACQ VOL | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | ACQ VOL | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NR, AL | ACQ COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | ACQ COUNT | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | ACQ COUNT | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 | L0 | NRT | NR, AL | PROD STC VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST | PROD STC VOL | SR\_0\_SRA\_\_\_ |
| S3 | L0 | NRT | NR, AL | PROD STC COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST | PROD STC COUNT | SR\_0\_SRA\_\_\_ |
| S3 | L0 | NTC | NT | PROD VOL | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 | L0 | NTC | NT | PROD COUNT | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 | L1 | NRT | NR, AL | PROD STC VOL | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 | NRT | ST | PROD STC VOL | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L1 | NRT | NR, AL | PROD STC COUNT | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 | NRT | ST | PROD STC COUNT | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L2 | NRT | NR, AL | PROD STC VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 | NRT | ST | PROD STC VOL | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 | L2 | NRT | NR, AL | PROD STC COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 | NRT | ST | PROD STC COUNT | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 | L1 | NTC | NT | PROD VOL | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 | NTC | NT | PROD COUNT | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L2 | NTC | NT | PROD VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 | NTC | NT | PROD COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 |  |  | NR, AL | PROD TOT VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | PROD TOT VOL | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | PROD TOT VOL | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NR, AL | PROD TOT COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | PROD TOT COUNT | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | PROD TOT COUNT | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 | L0 | NRT | NR, AL | LTA VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST | LTA VOL | SR\_0\_SRA\_\_\_ |
| S3 | L0 | NRT | NR, AL | LTA COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST | LTA COUNT | SR\_0\_SRA\_\_\_ |
| S3 | L1 |  | NR, AL | DD VOL | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 |  | NT | DD VOL | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 |  | ST | DD VOL | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L1 |  | NR, AL | DD COUNT | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 |  | NT | DD COUNT | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 |  | ST | DD COUNT | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L2 |  | NR, AL | DD VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 |  | NT | DD VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 |  | ST | DD VOL | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 | L2 |  | NR, AL | DD COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 |  | NT | DD COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 |  | ST | DD COUNT | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 |  |  | NR, AL | DD TOT VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | DD TOT VOL | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | DD TOT VOL | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NR, AL | DD TOT COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | DD TOT COUNT | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | DD TOT COUNT | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 | L1 |  | NR, AL | DL VOL | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 |  | NT | DL VOL | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 |  | ST | DL VOL | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L1 |  | NR, AL | DL COUNT | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 |  | NT | DL COUNT | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 |  | ST | DL COUNT | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L2 |  | NR, AL | DL VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 |  | NT | DL VOL | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 |  | ST | DL VOL | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 | L2 |  | NR, AL | DL COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 |  | NT | DL COUNT | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 |  | ST | DL COUNT | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S3 |  |  | NR, AL | DL TOT VOL | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | DL TOT VOL | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | DL TOT VOL | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | NR, AL | DL TOT COUNT | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, OL\_1\_RAC**\_, OL\_1\_SPC\_**, OL\_2\_LFR**\_, OL\_2\_LRR\_**, SL\_0\_SLT**\_, SL\_1\_RBT\_**, SL\_2\_LST**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, SR\_1\_CAL\_**, SR\_1\_SRA**\_, SR\_2\_LAN\_**, TM\_0\_HKM**\_, TM\_0\_HKM2\_*, TM\_0\_NAT*\_\_ |
| S3 |  |  | NT | DL TOT COUNT | MW\_1\_MWR\_**, OL\_0\_EFR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_0\_SLT\_**, SL\_1\_RBT**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_AOD*\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |
| S3 |  |  | ST | DL TOT COUNT | MW\_1\_MWR\_**, SR\_0\_SRA**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SR\_2\_LAN**\_, SY\_1\_MISR\_*, SY\_2\_SYN*\_*, SY\_2\_V10*\_*, SY\_2\_VG1*\_*, SY\_2\_VGK*\_*, SY\_2\_VGP*\_\_ |

Time reference for this dashboard is: sensing\_start\_date

Important notice: Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Schematic View - S5[🔗](https://omcs.copernicus.eu/grafana/d/C-S9wvFVk/system-technical-budget-schematic-view-s5)

**Section**: STB

**Description**:

The System Technical Budget Schematic View - S5 is based on

* the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2).
* the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards. a

For System Technical Budget Schematic View - S5 the data published at PRIP, LTA or DD and DSIB files are selected.

* Section Data Aquisition data from DSIB files.
* Section Data Production data published at PRIP.
* Section Data Preservation data published at LTA.
* Section Data Distribution data published at DD.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

Rmq : There is today no S5 L0 data published at prip.

### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **Yearly Overall Data Flow S5 SATELLITE**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S5 |  |  | NRTI | ACQ VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | ACQ VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | ACQ VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 |  |  | NRTI | ACQ COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | ACQ COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | ACQ COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L0 | NRT-NTC | OPER | PROD VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L0 | NRT-NTC | OPER | PROD COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 | NRT | NRTI | PROD VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 | NRT | NRTI | PROD COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 | NTC | OFFL | PROD VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 | NTC | OFFL | PROD COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L2 | NRT | NRTI | PROD VOL | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 | NRT | NRTI | PROD COUNT | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 | NTC | OFFL | PROD VOL | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 | NTC | OFFL | PROD COUNT | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L0 |  | OPER | LTA VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L0 |  | OPER | LTA COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 |  | NRTI | LTA VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | LTA VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 |  | NRTI | LTA COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | LTA COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L2 |  | NRTI | LTA VOL | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | LTA VOL | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 |  | NRTI | LTA COUNT | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | LTA COUNT | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | NRTI | LTA TOT VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | LTA TOT VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | LTA TOT VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 |  |  | NRTI | LTA TOT COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | LTA TOT COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | LTA TOT COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 |  | NRTI | DD VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | DD VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 |  | NRTI | DD COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | DD COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L2 |  | NRTI | DD VOL | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | DD VOL | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 |  | NRTI | DD COUNT | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | DD COUNT | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | NRTI | DD TOT VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | DD TOT VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | DD TOT VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 |  |  | NRTI | DD TOT COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | DD TOT COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | DD TOT COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 |  | NRTI | DL VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | DL VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 |  | NRTI | DL COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L1 |  | OFFL | DL COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L2 |  | NRTI | DL VOL | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | DL VOL | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 |  | NRTI | DL COUNT | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 | L2 |  | OFFL | DL COUNT | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | NRTI | Dl TOT VOL | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | Dl TOT VOL | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | Dl TOT VOL | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 |  |  | NRTI | Dl TOT COUNT | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8, NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |
| S5 |  |  | OFFL | Dl TOT COUNT | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8, OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 |  |  | OPER | Dl TOT COUNT | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Table - Acquisition[🔗](https://omcs.copernicus.eu/grafana/d/9jt42U2Vz/system-technical-budget-table-acquisition)

**Section**: STB

**Description**:

The System Technical Budget Tables - Aquisition is based on

* the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2).
* the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Tables - Aquisition the data From DSIB are selected.

* Section Data Aquisition data from DSIB files.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by downlink (2 channels) by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

### Annexes

#### Product type selected

There is no Product type, level or timleiness concept for information about passes transfers.

### Dashboard usage

On left top of the dashboard the mean combobox allow to select mean period:

* none: values for the selected period.
* by day: values are divided by the number of seconds in the selected periode divided by the number of seconds in 1 day.
* by week: values are divided by the number of seconds in the selected periode divided by the number of seconds in 7 day.
* by month: values are divided by the number of seconds in the selected periode divided by the number of seconds in 30 day.
* by year: values are divided by the number of seconds in the selected periode divided by the number of seconds in 365 day.

Time reference for this dashboard is : time\_created

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Tables - Archiving[🔗](https://omcs.copernicus.eu/grafana/d/nRlrQvKVk/system-technical-budget-tables-archiving)

**Section**: STB

**Description**:

The System Technical Budget Tables - Archiving is based on - the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2). - the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards. For System Technical Budget Tables - Archiving the data published at LTA are selected. - Section Data Preservation data published at LTA.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. ( i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

For S1, S2, S3 values are mean of the 4 LTA, for S5 values came from S5P\_DLR.

### Annexes

#### Product type selected

The tables below present how products types are classified in STB level and STB timeliness:

##### For panel **System Technical Budget ( On Range )** :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 | L0 | NTC | NTC |  | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT | NRT, NRT-PT |  | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L1 | NTC | NTC |  | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L1 | NRT | NRT, NRT-PT |  | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L2 | NTC | NTC |  | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 | L2 | NRT | NRT, NRT-PT |  | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S2 | L0 | NTC | NOMINAL |  | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L1 | NTC | NOMINAL |  | MSI\_L1A\_DS, MSI\_L1A\_GR, MSI\_L1B\_DS, MSI\_L1B\_GR, MSI\_L1C\_\_\_, MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L2 | NTC | NOMINAL |  | MSI\_L2A\_\_\_, MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 | L0 | NTC | NT |  | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 | L0 | NRT | NR, AL |  | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST |  | SR\_0\_SRA\_\_\_ |
| S3 | L1 | NTC | NT |  | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 | NRT | NR, AL |  | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 | NRT | ST |  | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L2 | NTC | NT |  | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 | NRT | NR, AL |  | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 | NRT | ST |  | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S5 | L0 | NTC | OPER |  | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 | NTC | OFFL |  | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 | NRT | NRTI |  | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L2 | NTC | OFFL |  | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 | NRT | NRTI |  | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

##### For the others panel in the dashboard:

Data cames form System Technical Budget ( On Range ) panel.

### Dashboard usage

On left top of the dashboard the mean combobox allow to select mean period: - by day: values are divided by the number of seconds in the selected periode divided by the number of seconds in 1 day. - by week: values are divided by the number of seconds in the selected periode divided by the number of seconds in 7 day. - by month: values are divided by the number of seconds in the selected periode divided by the number of seconds in 30 day. - by year: values are divided by the number of seconds in the selected periode divided by the number of seconds in 365 day.

Time reference for this dasboard is: sensing\_start\_date

Important notice: Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Tables - Dissemination[🔗](https://omcs.copernicus.eu/grafana/d/2sDjwvFVz/system-technical-budget-tables-dissemination)

**Section**: STB

**Description**:

⚠️ Data used : DHUS before 30/09/2023 (DHUS decomition), DAS after.

## System Technical Budget Tables - Production[🔗](https://omcs.copernicus.eu/grafana/d/ZJm3wDKVz/system-technical-budget-tables-production)

**Section**: STB

**Description**:

The System Technical Budget Tables - Production is based on - the data budget reference document [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2). - the data flow reference document [[ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-58%5D%20CSC%20GS%20Data%20Flow%20Configuration.pdf?api=v2).

Data flow document extraction is visible in the [“Data Flow dashboard”](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1)

### Data selected

From [[ESA-EOPG-EOPGC-TN-9] CSC Operations – ESA Framework – System Technical Budget.pdf](https://omcs.atlassian.net/wiki/download/attachments/66158618/%5BESA-EOPG-EOPGC-TN-9%5D%20CSC%20Operations%20–%20ESA%20Framework%20–%20System%20Technical%20Budget.pdf?api=v2) document some assuption are made to provide the System Technical Budget dashboards.

For System Technical Budget Tables - Production the data published at PRIP are selected.

-Section Data Preservation data published at PRIP.

**Data collection** are considered as consistent since **01/08/2022**

**Data collection** for **aquisition** are considered as consistent since **15/03/2023**

Values are mean by satellite number in mission. (i.e. S1 1 satellite, S2 mean of 2 satellite, S3 mean of 2 satellite; S5 1 satellite )

Rmq : There is today no S5 L0 data published at prip.

### Annexes

#### Product type selected

The table below present how products types are classified in STB level and STB timeliness:

##### For panel**System Technical Budget( On Range)**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mission** | **STB Level** | **STB Timeliness** | **Real timeliness** | **Misc.** | **Product Type** |
| S1 | L0 | NTC | NTC |  | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S, RF\_RAW, S1\_RAW\_\_0A, S1\_RAW\_\_0C, S1\_RAW\_\_0N, S1\_RAW\_\_0S, S2\_RAW\_\_0A, S2\_RAW\_\_0C, S2\_RAW\_\_0N, S2\_RAW\_\_0S, S3\_RAW\_\_0A, S3\_RAW\_\_0C, S3\_RAW\_\_0N, S3\_RAW\_\_0S, S4\_RAW\_\_0A, S4\_RAW\_\_0C, S4\_RAW\_\_0N, S4\_RAW\_\_0S, S5\_RAW\_\_0A, S5\_RAW\_\_0C, S5\_RAW\_\_0N, S5\_RAW\_\_0S, S6\_RAW\_\_0A, S6\_RAW\_\_0C, S6\_RAW\_\_0N, S6\_RAW\_\_0S, WV\_RAW\_\_0A, WV\_RAW\_\_0C, WV\_RAW\_\_0N, WV\_RAW\_\_0S |
| S1 | L0 | NRT | NRT, NRT-PT |  | EW\_RAW\_\_0A, EW\_RAW\_\_0C, EW\_RAW\_\_0N, EW\_RAW\_\_0S, IW\_RAW\_\_0A, IW\_RAW\_\_0C, IW\_RAW\_\_0N, IW\_RAW\_\_0S |
| S1 | L1 | NRT | NRT, NRT-PT |  | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S |
| S1 | L1 | NTC | NTC |  | EW\_GRDM\_1A, EW\_GRDM\_1S, EW\_SLC\_\_1A, EW\_SLC\_\_1S, IW\_GRDH\_1A, IW\_GRDH\_1S, IW\_SLC\_\_1A, IW\_SLC\_\_1S, S1\_GRDH\_1A, S1\_GRDH\_1S, S1\_SLC\_\_1A, S1\_SLC\_\_1S, S2\_GRDH\_1A, S2\_GRDH\_1S, S2\_SLC\_\_1A, S2\_SLC\_\_1S, S3\_GRDH\_1A, S3\_GRDH\_1S, S3\_SLC\_\_1A, S3\_SLC\_\_1S, S4\_GRDH\_1A, S4\_GRDH\_1S, S4\_SLC\_\_1A, S4\_SLC\_\_1S, S5\_GRDH\_1A, S5\_GRDH\_1S, S5\_SLC\_\_1A, S5\_SLC\_\_1S, S6\_GRDH\_1A, S6\_GRDH\_1S, S6\_SLC\_\_1A, S6\_SLC\_\_1S, WV\_SLC\_\_1A, WV\_SLC\_\_1S |
| S1 | L2 | NTC | NTC |  | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S, S1\_OCN\_\_2A, S1\_OCN\_\_2S, S2\_OCN\_\_2A, S2\_OCN\_\_2S, S3\_OCN\_\_2A, S3\_OCN\_\_2S, S4\_OCN\_\_2A, S4\_OCN\_\_2S, S5\_OCN\_\_2A, S5\_OCN\_\_2S, S6\_OCN\_\_2A, S6\_OCN\_\_2S, WV\_OCN\_\_2A, WV\_OCN\_\_2S |
| S1 | L2 | NRT | NRT, NRT-PT |  | EW\_OCN\_\_2A, EW\_OCN\_\_2S, IW\_OCN\_\_2A, IW\_OCN\_\_2S |
| S2 | L0 | NTC | NOMINAL |  | MSI\_L0\_\_DS, MSI\_L0\_\_GR |
| S2 | L1A | NTC | NOMINAL |  | MSI\_L1A\_DS, MSI\_L1A\_GR |
| S2 | L1B | NTC | NOMINAL |  | MSI\_L1B\_DS, MSI\_L1B\_GR |
| S2 | L1C | NTC | NOMINAL |  | MSI\_L1C\_\_\_, MSI\_L1C\_DS, MSI\_L1C\_TC, MSI\_L1C\_TL |
| S2 | L2A | NTC | NOMINAL |  | MSI\_L2A\_\_\_, MSI\_L2A\_DS, MSI\_L2A\_TC, MSI\_L2A\_TL |
| S3 | L0 | NTC | NT |  | OL\_0\_EFR\_**, SL\_0\_SLT**\_ |
| S3 | L0 | NRT | NR, AL |  | DO\_0\_DOP\_**, DO\_0\_NAV**\_, GN\_0\_GNS\_**, MW\_0\_MWR**\_, OL\_0\_CR0\_**, OL\_0\_CR1**\_, OL\_0\_EFR\_**, SL\_0\_SLT**\_, SR\_0\_CAL\_**, SR\_0\_SRA**\_, TM\_0\_HKM\_**, TM\_0\_HKM2**, TM\_0\_NAT\_\_\_ |
| S3 | L0 | NRT | ST |  | SR\_0\_SRA\_\_\_ |
| S3 | L1 | NTC | NT |  | MW\_1\_MWR\_**, OL\_1\_EFR**\_, OL\_1\_ERR\_**, SL\_1\_RBT**\_, SR\_1\_SRA\_**, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR** |
| S3 | L1 | NRT | NR, AL |  | MW\_1\_CAL\_**, MW\_1\_MWR**\_, OL\_1\_EFR\_**, OL\_1\_ERR**\_, OL\_1\_RAC\_**, OL\_1\_SPC**\_, SL\_1\_RBT\_**, SR\_1\_CAL**\_, SR\_1\_SRA\_\_\_ |
| S3 | L1 | NRT | ST |  | MW\_1\_MWR\_**, SR\_1\_SRA**\_, SR\_1\_SRA\_A\_, SR\_1\_SRA\_BS, SY\_1\_MISR\_\_ |
| S3 | L2 | NTC | NT |  | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_FRP\_**, SL\_2\_LST**\_, SR\_2\_LAN\_**, SY\_2\_AOD**\_, SY\_2\_SYN\_**, SY\_2\_V10**\_, SY\_2\_VG1\_**, SY\_2\_VGK**\_, SY\_2\_VGP\_\_\_ |
| S3 | L2 | NRT | NR, AL |  | OL\_2\_LFR\_**, OL\_2\_LRR**\_, SL\_2\_LST\_**, SR\_2\_LAN**\_ |
| S3 | L2 | NRT | ST |  | SR\_2\_LAN\_**, SY\_2\_SYN**\_, SY\_2\_V10\_**, SY\_2\_VG1**\_, SY\_2\_VGK\_**, SY\_2\_VGP**\_ |
| S5 | L0 | NTC | OPER |  | OPER\_L0\_*ENG\_A*, OPER\_L0\_*ODB\_1*, OPER\_L0\_*ODB\_2*, OPER\_L0\_*ODB\_3*, OPER\_L0\_*ODB\_4*, OPER\_L0\_*ODB\_5*, OPER\_L0\_*ODB\_6*, OPER\_L0\_*ODB\_7*, OPER\_L0\_*ODB\_8*, OPER\_L0\_*SAT\_A* |
| S5 | L1 | NTC | OFFL |  | OFFL\_L1B\_CA\_SIR, OFFL\_L1B\_CA\_UVN, OFFL\_L1B\_ENG\_DB, OFFL\_L1B\_IR\_SIR, OFFL\_L1B\_IR\_UVN, OFFL\_L1B\_RA\_BD1, OFFL\_L1B\_RA\_BD2, OFFL\_L1B\_RA\_BD3, OFFL\_L1B\_RA\_BD4, OFFL\_L1B\_RA\_BD5, OFFL\_L1B\_RA\_BD6, OFFL\_L1B\_RA\_BD7, OFFL\_L1B\_RA\_BD8 |
| S5 | L1 | NRT | NRTI |  | NRTI\_L1B\_ENG\_DB, NRTI\_L1B\_RA\_BD1, NRTI\_L1B\_RA\_BD2, NRTI\_L1B\_RA\_BD3, NRTI\_L1B\_RA\_BD4, NRTI\_L1B\_RA\_BD5, NRTI\_L1B\_RA\_BD6, NRTI\_L1B\_RA\_BD7, NRTI\_L1B\_RA\_BD8 |
| S5 | L2 | NTC | OFFL |  | OFFL\_L2\_\_03\_TCL, OFFL\_L2\_\_AER\_AI, OFFL\_L2\_*AER\_LH, OFFL\_L2****CH4\_, OFFL\_L2\_CLOUD, OFFL\_L2\_CO***, OFFL\_L2\_\_FRESCO, OFFL\_L2**HCHO\_, OFFL\_L2\_*NO2***, OFFL\_L2\_\_NP\_BD3, OFFL\_L2\_*NP\_BD6, OFFL\_L2****NP\_BD7, OFFL\_L2\_O3***, OFFL\_L2\_\_O3**PR, OFFL\_L2\_*SO2*** |
| S5 | L2 | NRT | NRTI |  | NRTI\_L2\_\_03\_TCL, NRTI\_L2\_\_AER\_AI, NRTI\_L2\_*AER\_LH, NRTI\_L2****CLOUD\_, NRTI\_L2\_CO***, NRTI\_L2\_\_FRESCO, NRTI\_L2**HCCO\_, NRTI\_L2\_*NO2***, NRTI\_L2**O3**\_\_, NRTI\_L2\_\_O3**PR, NRTI\_L2\_*SO2*** |

#####Fortheotherspanelinthedashboard:

Data cames form System Technical Budget( On Range) panel.

### Dashboard usage

On left top of the dashboard the mean combobox allow to select mean period: - by day: values are divided by the number of seconds in the selected periode divided by the number of seconds in 1 day. - by week: values are divided by the number of seconds in the selected periode divided by the number of seconds in 7 day. - by month: values are divided by the number of seconds in the selected periode divided by the number of seconds in 30 day. - by year: values are divided by the number of seconds in the selected periode divided by the number of seconds in 365 day.

Time reference for this dashboard is: sensing\_start\_date

Important notice: Tables & timelines can only display up to 10000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## System Technical Budget Thresholds[🔗](https://omcs.copernicus.eu/grafana/d/aditsrffkv94wd/system-technical-budget-thresholds)

**Section**: STB

**Description**:

#### Summary

This dashboard features a comparison between the real amount of element and volumes in the database in regards with the budgeted values given in the technical budget thanks to red thresholds displayed on graphs.

The dashboard is split in 2 rows: - The first row gives a global overview per service type : Production, Archiving and Dissemination per satellite. In green, the volume/count in our database and in red the budgeted value. The satelite and mission can be chosen

* The second row gives a more detailled view where user can also choose a specific technocal budget level and timeliness for a giner granularity

#### Timeliness lookup table

To match the timeliness written in the technical budget with the one from our database, the following true table has been used

Technical budget MISSION // Technical budget Timeliness // Database timelinesses  
  
S1 /// NTC /// ["NTC"]  
S1 /// NRT: /// ["NRT","NRT-PT"]  
S1 /// A /// ["NRT-PT","NTC","NRT"]  
S1 /// AUX /// ["\_"]  
S1 /// \_ /// ["\_"]  
  
  
S2 /// NTC /// ["NOMINAL,NOT\_RECORDING"]  
S2 /// AUX /// ["AUX"]  
S2 /// \_ /// ["\_"]  
  
  
S3 /// NTC /// ["NT"]  
S3 /// NRT /// ["NR,AL"]  
S3 /// STC /// ["ST"]  
S3 /// AUX /// ["SN,NS,NN,\_"]  
  
  
S5 /// NTC /// ["OPER,OFFL"]  
S5 /// AUX /// ["\_"]  
S5 /// NRT /// ["NRTI"]

#### Facts related to technical budget v1.8

* element in technical budget with level L1X are rattached to L1. EG: L1B -> L1 etc..
* the typo in technical budget type OFFL\_L2\_\_HCCO\_ instead of OFFL\_L2\_\_HCHO\_ has been taken into account in our calculation
* type OBS\_SS\_\_` is not an AUX and has not level so it has been disregarded from our calculation
* All auxiliary have their level defined to AUX even if not written in the databudget
* Some types in the technical budget have a suffix which does not exist for elements in our database (AUX\_ECE) (EUP) (SH/SV/DH/DV) (SH/SV) so they have been removed to match with our data
* Somes element in the databudget have their field #Num/day and/or Volume per day [GB] not defined. It will lead to an incomplete threshold definition
* Some element for mission S1 have their level set to A without a timeliness defined. We kept them in a separate A level and we associated it to timeliness [“NRT-PT”,“NTC”,“NRT”] as a guess

#### Note

* It is possible to select the version of the technical budget to use by modifying the version variable
* The granularity of the data is a day

Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.",

## LTA Alignement[🔗](https://omcs.copernicus.eu/grafana/d/fcd80751-254b-4933-9f3d-588eb26028a9/lta-alignement)

**Section**: Specific

**Description**:

This dashboard features a comparison of archived product on all LTA

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Acquisition Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/ArGraZm4kgdfg/acquisition-timeliness)

**Section**: Timeliness

**Description**:

This dashboard features an Acquisition Timeliness for Mission S1, S2, S3, S5.

Information is taken from station reports made available through CADIP interface for S1,S2,S3 and XBAND for S5

Timeliness is computed using following logics : - (stop\_delivery date - first\_frame\_start date) for mission S1,S2 and S3 - (delivery\_stop date - downlink\_start date) for mission S5

Discrepancies are displayed through the following indicators:

* Percent of products below timeliness threshold;
* Average timeliness of products;
* Time series of product displayed against the timeliness threshold;
* Detailed list of product out of accepted range.

Tips: - Annotations are available on time series; - Satellite, mission, reception station or downlink orbit to consider can be selected in the upper bar. - Use Downlink Orbit Cadip to filter the downlink orbit for mission S1,S2 and S3 - Use Downlink Orbit DDP to filter the downlink orbit for mission S5

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## ADG Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/LYiLzXw8k/adg-timeliness)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of data published at the following interfaces: - AUXIP.

Auxiliary data is divided into two categories: - Several per day (timeliness should be below 10 minutes); - One per day (timeliness should be below 30 minutes).

The list of products and their associated frequency :

|  |  |
| --- | --- |
| **Timeliness** | **Product Type** |
| Several per day (<10 min) | AUX\_WND, AUX\_PREORB, AUX\_RESORB, AUX\_POEORB, AUX\_ECMWFD, AX\_**MF1\_AX, AX**\_MFA\_AX, AX\_**MA1\_AX, AX**\_MF2\_AX, AX\_**MA2\_AX, SR**\_MDO\_AX, SR\_2\_RMO\_AX, SR\_2\_PMO\_AX |
| One per day (<30 min) | AUX\_ICE, AUX\_TRO, MPL\_ORBPRE, MPL\_ORBRES, MPL\_TLEPRE, TLM\_\_REQ\_B, TLM\_\_REQ\_C, TLM\_\_REQ\_D, TLM\_\_REQ\_E, TLM\_\_REQ\_F, AUX\_CAMSFO, AUX\_UT1UTC, TLM\_\_REQ\_A, TLM\_\_REQ\_B, REP**CHF**, REP**FCHF**, MPL\_ORBPRE, MPL\_ORBRES, SR\_2\_PMPSAX, SR\_2\_POL\_AX, SR\_2\_PGI\_AX, SR\_2\_RGI\_AX, SR\_1\_USO\_AX, SR\_\_\_MGNSAX, SL\_2\_SSTAAX, SL\_2\_DIMSAX, AX\_\_\_FPO\_AX, AX\_\_\_FRO\_AX, AUX\_POEORB, AUX\_GNSSRD, SR\_2\_PCPPAX, SR\_2\_PMPPAX, SR\_\_\_MGNPAX, SR\_\_\_POEPAX, SR\_2\_SIFNAX, SR\_2\_SIFSAX |

Timeliness is computed from metadata attached to each Auxiliary data (Publication Date - Origin Date).

Discrepancies are displayed through the following indicators: - Percent of data below timeliness threshold; - Average timeliness of data; - Time series of data displayed against the timeliness threshold; - Detailed list of data out of accepted range.

Information is available for each mission managed by OMCS.

Tips: - Annotations are available on time series; - Mission to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## DD Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/ede54e59-bc3d-4e34-bcaf-8b95adf31358/dd-timeliness)

**Section**: Timeliness

**Description**:

### DDs Timeliness

This dashboard show statistics about the DD product timeliness.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## LTA Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/f36f5bb3-6465-4a54-a35b-9ce4c0838ea6/lta-timeliness)

**Section**: Timeliness

**Description**:

### LTAs Timeliness

This dashboard show statistics about the LTA product timeliness.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## PRIP-LTA Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/ZrsG86xnl/prip-lta-timeliness)

**Section**: Timeliness

**Description**:

### LTAs Timeliness

This dashboard show statistics about the LTA product timeliness.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S1 E2E Timeliness (Disseminated from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/239nDaQnk/s1-e2e-timeliness-disseminated-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S1 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S1 E2E Timeliness (Production from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/ArGraZm4k/s1-e2e-timeliness-production-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S1 mission: - PRIP.

Timeliness is computed from metadata attached to each PRIP product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S1 E2E Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/acb0846e-e67e-4643-8d0c-e9703209e16f/s1-e2e-timeliness)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S1 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S2 E2E Timeliness (Disseminated from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/LYiLzXw7k/s2-e2e-timeliness-disseminated-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S2 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S2 E2E Timeliness (Production from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/_G89-WmVz/s2-e2e-timeliness-production-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S2 mission: - PRIP.

Timeliness is computed from metadata attached to each PRIP product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S2 E2E Timeliness[🔗](https://omcs.copernicus.eu/grafana/d/d4a5e625-c992-4a4a-a66e-7da779b7a044/s2-e2e-timeliness)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S2 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S3 E2E Timeliness (Disseminated from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/QyIDnuQ7k/s3-e2e-timeliness-disseminated-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S3 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S3 E2E Timeliness (Production from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/d5XUaWiVk/s3-e2e-timeliness-production-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S3 mission: - PRIP.

Timeliness is computed from metadata attached to each PRIP product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S5 E2E Timeliness (Disseminated from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/LYq4MSC7z/s5-e2e-timeliness-disseminated-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S5 mission: - DD DHUS, DAS.

Timeliness is computed from metadata attached to each DD product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar. - Dissemination service to consider can be selected in the upper bar filter named “Dissemination service”.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## S5 E2E Timeliness (Production from Sensing)[🔗](https://omcs.copernicus.eu/grafana/d/LPt_-Wm4k/s5-e2e-timeliness-production-from-sensing)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces for S5 mission: - PRIP.

Timeliness is computed from metadata attached to each PRIP product (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Percent of products below timeliness threshold; - Average timeliness of products; - Time series of product displayed against the timeliness threshold; - Detailed list of product out of accepted range.

Information is available for each satellite managed by OMCS.

Tips: - Annotations are available on time series; - Satellite to consider can be selected in the upper bar.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Services Timeliness & Production time[🔗](https://omcs.copernicus.eu/grafana/d/CdIGZab7azazaz/services-timeliness-and-production-time)

**Section**: Timeliness

**Description**:

This dashboard features a Timeliness computation of products published at the following interfaces: - PRIP; - LTA; - DD DHUS.

Timeliness is computed from metadata attached to each product: - Production Time is (Publication Date - Origin Date); - From sensing timeliness (Publication Date - Content Date/End (which is the end of sensing)).

Discrepancies are displayed through the following indicators: - Minimum, maximum, average timeliness; - Distribution of timeliness in various time ranges.

Information is available for each mission and interface managed by OMCS.

Tips: - Mission to consider can be selected in the upper bar.

Note: Some product category are not disseminated to DHUS

* For S1, S2 and S3, files without timeliness (“\_” Category), following product types are concerned :
  + S1 : HTKM and GP files
  + S2 : HKTM and SADATA files
  + S3 : POD, Mission Planning files and Unavailability reports
* For S3, products with timeliness AL, NN, NS & SN

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Satellite Unavailability Reports[🔗](https://omcs.copernicus.eu/grafana/d/FJ9XE528k/satellite-unavailability-reports)

**Section**: Unavailability

**Description**:

This dashboard features Satellite Unavailability report published at the following interface: - AUXIP.

Information is available for the following missions: S1 and S2.

Time reference for this dashboard is : start\_time

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Available Data Volume (CADIP)[🔗](https://omcs.copernicus.eu/grafana/d/available-data-volume-cadip/available-data-volume-cadip)

**Section**: Volumes\_Count

**Description**:

This dashboard shows volume of data acquired by stations and made available to Production Services through CADIP interface.

Time reference for this dashboard is : planned\_data\_start

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Available Data Volume (XBIP / EDRS)[🔗](https://omcs.copernicus.eu/grafana/d/NKq_TCtnz/available-data-volume-xbip-edrs)

**Section**: Volumes\_Count

**Description**:

This dashboard shows volume of data acquired by stations and made available to Production Services through DDP/XBIP interface.

Time reference for this dashboard is : time\_created

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Golden rules & Data flow[🔗](https://omcs.copernicus.eu/grafana/d/MfmL_E4Vz/golden-rules-and-data-flow)

**Section**: Volumes\_Count

**Description**:

This view provides the dataflow of Sentinel products as defined in [ESA-EOPG-EOPGC-TN-58] CSC GS Data Flow Configuration document. Current dataflow verion is 1.2 . Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## LTA Usage[🔗](https://omcs.copernicus.eu/grafana/d/BYUqN6PVz/lta-usage)

**Section**: Volumes\_Count

**Description**:

Time reference for this dashboard is : timestamp

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Products Data Volume and Count[🔗](https://omcs.copernicus.eu/grafana/d/K-JTm_57k/products-data-volume-and-count)

**Section**: Volumes\_Count

**Description**:

This dashboard features statistics on: - Product Count (number of individual products published); - Data Volume (size of all the products published).

Statistics are available for each interface managed by OMCS.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Products Detailed View (Count Volume and List)[🔗](https://omcs.copernicus.eu/grafana/d/wAz0kHcnk/products-detailed-view-count-volume-and-list)

**Section**: Volumes\_Count

**Description**:

This dashboard features a detailed view of products published on CSC interfaces (PRIP, LTA, …): - Product Count & Volume sorted by product level (L0, L1, L2); - Product Count & Volume over time; - Detailled list of products published.

[Golden rules and Data Flow dashboard](d/MfmL_E4Vz/golden-rules-and-data-flow%3ForgId=1) provides a view about where to expect each type of product. In order to finley analyse misalignment between interfaces, please use LTA & DD Completeness dashboards.

Note : The “Range” values provided in legend of Bargraphs, corresponds to the maximum difference observed in product count/volume between displayed services.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

## Products Inventory[🔗](https://omcs.copernicus.eu/grafana/d/zASfw_wnk/products-inventory)

**Section**: Volumes\_Count

**Description**:

This dashboard features information on: - Detailed list of published products and date of publication on each interface.

Time reference for this dashboard is : sensing\_start\_date

Important notice : Tables & timelines can only display up to 10 000 entries. Please make use of filters to narrow down the retrieved data and get a more realistic view.

# Users management

## Disclamer

Following notes explain some limitations about the usage of the following documentation:

1. Some feature will not be available until the SMTP server is provided and configured.
2. The procedure refers to the ‘Server administrator’, only the user ‘Admin’ have this kind of permission.

## User management

The following topics on [Grafana documentation](https://grafana.com/docs/grafana/latest/administration/user-management/) describe how to use permissions to control user access to data sources, dashboards, users, and teams.

* [Server user management](https://grafana.com/docs/grafana/latest/administration/user-management/server-user-management/)
* [Manage user preferences](https://grafana.com/docs/grafana/latest/administration/user-management/user-preferences/)
* [Manage users in an organization](https://grafana.com/docs/grafana/latest/administration/user-management/manage-org-users/)
* [Manage dashboard permissions](https://grafana.com/docs/grafana/latest/administration/user-management/manage-dashboard-permissions/)

### Roles and permissions

Summary of list by user role:

|  |  |  |  |
| --- | --- | --- | --- |
| **Permission** | **Organization administrator** | **Editor** | **Viewer** |
| View dashboards | x | x | x |
| Add, edit, delete dashboards | x | x |  |
| Add, edit, delete folders | x | x |  |
| View playlists | x | x | x |
| Add, edit, delete playlists | x | x |  |
| Create library panels | x | x |  |
| View annotations | x | x | x |
| Add, edit, delete annotations | x | x |  |
| Access Explore | x | x |  |
| Add, edit, delete data sources | x |  |  |
| Add and edit users | x |  |  |
| Add and edit teams | x |  |  |
| Change organizations settings | x |  |  |
| Change team settings | x |  |  |
| Configure application plugins | x |  |  |

For more information on roles and permissions, please follow Grafana documentation: <https://grafana.com/docs/grafana/latest/administration/roles-and-permissions/>

## Team management

Teams allow to cover groups of users. It is recommended to use teams when assigning permission on a dashboard or a folder.

To manage teams please follow Grafana documentation: <https://grafana.com/docs/grafana/latest/administration/team-management/>

## Task shortcut

|  |  |
| --- | --- |
| **Task** | **Permission needed** |
| 1. [Add a user](https://grafana.com/docs/grafana/latest/administration/user-management/server-user-management/" \l "add-a-user) | Server administrator |
| 1. [Invite a user](https://grafana.com/docs/grafana/latest/administration/user-management/manage-org-users/" \l "invite-a-user-to-join-an-organization) | Organization administrator **(SMTP server needed)** |
| 2. [Create a Team](https://grafana.com/docs/grafana/latest/administration/team-management/" \l "create-a-team) | Organization administrator permissions Team administrator permissions |
| 3. [Add a team member](https://grafana.com/docs/grafana/latest/administration/team-management/" \l "add-a-team-member) | Organization administrator permissions |
| 4. [Grant team member permissions](https://grafana.com/docs/grafana/latest/administration/team-management/" \l "grant-team-member-permissions) | Organization administrator permissions Team administrator permissions |

## Copy a provisioned dashboard

Provisioned dashboards cannot be edited by a user. Editors or Admin users need to copy the dashboard in a folder with editor role assigned to the user.

Then two choice is available:

1. Click on save 💾 button. A dialog open informing that the dashboard can not be edited and shows the json to be copied. Once the json retrieved, add a new Dashboards -> Import, then the json can be loaded to initiate the new dashboard.
2. Click on the dashboard settings ⚙️, then Save As... and select the folder where copy the dashboard.

# Skedler

Writing in progress.

## License activation

On fresh installation Skedler will ask at first connection to create an account.

The account was configure with the email link to the License purchased.

## Report template creation

TODO

## Report generation

TODO

## Report periodic configuration

TODO

## Notifications

TODO

# Alerting

## smtp configuration

Alerting is configured in grafana in allerting section depending on alret kind some configurations should be done before configuring Alerts in Grafana web interface like smtp configurat(to use email as contact point smtp server should be configured in garafana.ini)

Set the smtp grafana configuration in the grafana.ini configmap in kube.

### Test for email alerting on prod (monitoring)

Append :

[smtp]  
enabled = true  
host = smtp.infratpz.fr:32503  
user = maas\_alert  
password = """XXXXXXXXXXX""" # from keepass  
from\_address = maas\_alert@intfratpz.fr  
from\_name = maas\_alert

## Registering contact point

Contact point defines the target users to be alerted when a alert rule is triggered.

To add a contact point, As admin user, on menu Alerting > Contact points (/grafana/alerting/notifications):

1. In the Grafana menu, click the Alerting (bell) icon to open the Alerting page listing existing alerts.
2. Click Contact points to open the page listing existing contact points.
3. Click New contact point.
4. From the Alertmanager dropdown, select an Alertmanager. By default, Grafana Alertmanager is selected.
5. In Name, enter a descriptive name for the contact point.
6. From Contact point type, select a type and fill out mandatory fields. For example, if you choose email, enter the email addresses (to use email as contact point smtp server should be configured in garafana.ini). Or if you choose Slack, enter the Slack channel(s) and users who should be contacted.
7. Some contact point types, like email or webhook, have optional settings. In Optional settings, specify additional settings for the selected contact point type.
8. In Notification settings, optionally select Disable resolved message if you do not want to be notified when an alert resolves.
9. To add another contact point type, click New contact point type and repeat steps 6 through 8.
10. Click Save contact point to save your changes.

Ref. [Grafana documentation](https://grafana.com/docs/grafana/latest/alerting/contact-points/create-contact-point/)

## Create rule alert

As admin user, on menu Alerting > Contact points, (/grafana/alerting/list), add Grafana managed rule

1. In the Grafana menu, click the Alerting (bell) icon to open the Alerting page listing existing alerts.
2. Click New alert rule. The new alerting rule page opens where the Grafana managed alerts option is selected by default.
3. In Step 1, add queries and expressions to evaluate, and then select the alert condition.
   * For queries, select a data source from the drop-down.
   * Add one or more queries or expressions.
   * For each expression, select either Classic condition to create a single alert rule, or choose from Math, Reduce, Resample options to generate separate alert for each series. For details on these options, see Single and multi dimensional rule.
   * Click Run queries to verify that the query is successful.
   * Next, select the query or expression for your alert condition.
4. In Step 2, specify the alert evaluation interval.
   * From the Condition drop-down, select the query or expression to trigger the alert rule.
   * For Evaluate every, specify the frequency of evaluation. Must be a multiple of 10 seconds. For examples, 1m, 30s.
   * For Evaluate for, specify the duration for which the condition must be true before an alert fires. > Note: Once a condition is breached, the alert goes into the Pending state. If the condition remains breached for the duration specified, the alert transitions to the Firing state, otherwise it reverts back to the Normal state.
   * In Configure no data and error handling, configure alerting behavior in the absence of data. Use the guidelines in No data and error handling.
   * Click Preview alerts to check the result of running the query at this moment. Preview excludes no data and error handling.
5. In Step 3, add the rule name, storage location, rule group, as well as additional metadata associated with the rule.
   * In Rule name, add a descriptive name. This name is displayed in the alert rule list. It is also the alertname label for every alert instance that is created from this rule.
   * From the Folder drop-down, select the folder where you want to store the rule.
   * For Group, specify a pre-defined group. Newly created rules are appended to the end of the group. Rules within a group are run sequentially at a regular interval, with the same evaluation time.
   * Add a description and summary to customize alert messages. Use the guidelines in Annotations and labels for alerting.
   * Add Runbook URL, panel, dashboard, and alert IDs.
   * Add custom labels.
6. Click Save to save the rule or Save and exit to save the rule and go back to the Alerting page.
7. Next, create a notification for the rule.
   * For instance, create a Root policy default for all alerts, using the Edit button
   * Add the contact previously created
   * Save these parameters

Follow Grafana documentation to see all options possible to create a rule:

* [Create a Grafana managed alerting rule](https://grafana.com/docs/grafana/latest/alerting/alerting-rules/create-grafana-managed-rule/" \l "add-grafana-managed-rule)
* [Manage alert rules](https://grafana.com/docs/grafana/latest/alerting/alerting-rules/rule-list/)

## Datasources

Datasources are all configured to be associated to a date. This date is use by the date picker on top of all dashboards.

Be aware of the date used by the datasource selected to avoid missing data in the results returned.

## Database Model

Cf. [Database model description](#database-model-description)

## References

* <https://grafana.com/docs/grafana/latest/alerting/>
* <https://grafana.com/docs/grafana/latest/alerting/alerting-rules/create-grafana-managed-rule/>

# Database model description

## Nomenclature

The name of datasources provides information of the date used for the index partitioning

* \*-monitoring: no partitioning filter uses, searches are done on all indices with an alias, and with the updateTime time field
* \*-sensing: searches by the sensing start date
* \*-publication: searches by the publication date

## Indices

* raw-data-\* indices are the raw data collected. All field map to the fields found on the payload downloaded on external interfaces
* cds-\* indices are consolidated data by OMCS dashboard services

Type in following table are : \* E for Elasticsearch indices, - the time field match the partitioning in the database \* G for Data source on Grafana, - the time field match the field use in Grafana timeline to request data

|  |  |  |  |
| --- | --- | --- | --- |
| **Index** | **Type** | **Time Field** | **Description** |
| cds-publication | EG | sensing\_start\_date | Direct consolidation of raw-data with additional field extracted (mission, satellite,product\_type…). Granularity with raw-data is 1 to 1. |
| cds-publication-monitoring | G | updateTime | - |
| cds-publication-publication | G | publication\_date | - |
| cds-product | EG | sensing\_start\_date | Products are consolidation grouping publications related to the same product. Additional information are computed |
| cds-product-monitoring | G | updateTime | - |
| cds-product-publication | G | publication\_date | - |
| cds-datatake | EG | observation\_time\_start | All completeness and timeliness computed field for S1 and S2 datatakes |
| cds-datatake-monitoring | G | updateTime | - |
| cds-datatake-publication | G | publication\_date | - |
| cds-downlink-datatake | EG | effective\_downlink\_start | Downlink plan for S1 and S2 |
| cds-downlink-datatake-monitoring | G | updateTime | - |
| cds-s3-completeness | EG | observation\_time\_start | All completeness and timeliness computed field for S3 orbits |
| cds-s3-completeness-monitoring | G | updateTime | - |
| cds-s3-completeness-publication | G | publication\_date | - |
| cds-s5-completeness | EG | observation\_time\_start | All completeness and timeliness computed field for S5 orbits |
| cds-s5-completeness-monitoring | G | updateTime | - |
| cds-s5-completeness-publication | G | publication\_date | - |
| cds-sat-unavailability | EG | start\_time | Consolidated satellites unavailability from published reports at the AUXIP |
| cds-sat-unavailability-monitoring | G | updateTime | - |
| cds-interface-status-monitoring | G | status\_time\_start | External interfaces availability monitoring status |
| raw-data-aps-product | EG | ingestionTime | Give the status of all acquisition passes status from XBAND |
| raw-data-aps-product-edrs | EG | ingestionTime | Give the status of all acquisition passes status from EDRS |
| cds-ddp-data-available | EG | time\_created | Provides DSIB information about passes transfers time and data volume |
| maas-collector-journal | EG | last\_date | Journal of collection for external interface. Provide the date of last collect and the date of last product collected. |
| cds-dataflow-conf | EG | none | Static table that contains the list of product type and diffusion informations |

# Engine Configuration

## Tolerance

In configuration file for engine, it is possible to add a configuration for completeness tolerance.

### Configuration example

Example of completeness tolerance :

"completeness\_tolerance": {  
 "S1": {  
 "global": 0,  
 "local": {  
 ".\*0.\*": 0,  
 ".\*1.\*": 0,  
 ".\*2.\*": 0,  
 "default": 0  
 }  
 },  
 "S2": {  
 "global": {  
 "DS.\*": 0,  
 "GR.\*": 0,  
 "TL.\*": 0,  
 "TC.\*": 0,  
 "default": 0  
 },  
 "local": {  
 ".\*0.\*DS": 0,  
 ".\*0.\*GR": 0,  
 ".\*1.\*DS": 0,  
 ".\*1.\*GR": 0,  
 ".\*1.\*TL": 0,  
 ".\*1.\*TC": 0,  
 ".\*2.\*TL": 0,  
 ".\*2.\*TC": 0,  
 ".\*2.\*DS": 0,  
 "L0.\*": 0,  
 "L1.\*": 0,  
 "L2.\*": 0,  
 "default": 0  
 },  
 "final": 0  
 },  
 "S3": {  
 "global": 0,  
 "local": {  
 ".\*0.\*": 0,  
 ".\*1.\*": 0,  
 ".\*2.\*": 0,  
 "default": 0  
 }  
 }  
}

### Configuration value example

This Configuration values impact expected values in datatake product.

#### Example

Example of datatake product :

{  
 "\_index": "cds-datatake-2022-05",  
 "\_type": "\_doc",  
 "\_id": "S1A-337854",  
 "\_version": 11,  
 "\_seq\_no": 23368,  
 "\_primary\_term": 5,  
 "found": true,  
 "\_source": {  
 "name": "S1A\_MP\_ACQ\_\_L0\_\_20220509T160000\_20220521T180000.csv",  
 "key": "S1A-337854",  
 "datatake\_id": "337854",  
 "satellite\_unit": "S1A",  
 "mission": "S1",  
 "observation\_time\_start": "2022-05-11T16:54:46.081Z",  
 "observation\_duration": 700601000,  
 "observation\_time\_stop": "2022-05-11T17:06:26.682Z",  
 "l0\_sensing\_duration": 702688000,  
 "l0\_sensing\_time\_start": "2022-05-11T16:54:44.780Z",  
 "l0\_sensing\_time\_stop": "2022-05-11T17:06:27.468Z",  
 "absolute\_orbit": 43166,  
 "relative\_orbit": 44,  
 "polarization": "DV",  
 "timeliness": "NRT-PT",  
 "instrument\_mode": "IW",  
 "instrument\_swath": "0",  
 "application\_date": "2022-05-09T16:00:00.000Z",  
 "updateTime": "2022-05-11T18:35:52.795Z",  
 "IW\_RAW\_\_0A\_local\_value": 702178000,  
 "IW\_RAW\_\_0A\_local\_expected": 701688000,  
 "IW\_RAW\_\_0A\_local\_value\_adjusted": 701688000,  
 "IW\_RAW\_\_0A\_local\_percentage": 100,  
 "IW\_RAW\_\_0A\_local\_status": "Complete",  
 "IW\_RAW\_\_0C\_local\_value": 702178000,  
 "IW\_RAW\_\_0C\_local\_expected": 701688000,  
 "IW\_RAW\_\_0C\_local\_value\_adjusted": 701688000,  
 "IW\_RAW\_\_0C\_local\_percentage": 100,  
 "IW\_RAW\_\_0C\_local\_status": "Complete",  
 "IW\_RAW\_\_0N\_local\_value": 702178000,  
 "IW\_RAW\_\_0N\_local\_expected": 701688000,  
 "IW\_RAW\_\_0N\_local\_value\_adjusted": 701688000,  
 "IW\_RAW\_\_0N\_local\_percentage": 100,  
 "IW\_RAW\_\_0N\_local\_status": "Complete",  
 "IW\_RAW\_\_0S\_local\_value": 702178000,  
 "IW\_RAW\_\_0S\_local\_expected": 701688000,  
 "IW\_RAW\_\_0S\_local\_value\_adjusted": 701688000,  
 "IW\_RAW\_\_0S\_local\_percentage": 100,  
 "IW\_RAW\_\_0S\_local\_status": "Complete",  
 "IW\_SLC\_\_1A\_local\_value": 702873000,  
 "IW\_SLC\_\_1A\_local\_expected": 700601000,  
 "IW\_SLC\_\_1A\_local\_value\_adjusted": 700601000,  
 "IW\_SLC\_\_1A\_local\_percentage": 100,  
 "IW\_SLC\_\_1A\_local\_status": "Complete",  
 "IW\_SLC\_\_1S\_local\_value": 702873000,  
 "IW\_SLC\_\_1S\_local\_expected": 700601000,  
 "IW\_SLC\_\_1S\_local\_value\_adjusted": 700601000,  
 "IW\_SLC\_\_1S\_local\_percentage": 100,  
 "IW\_SLC\_\_1S\_local\_status": "Complete",  
 "IW\_GRDH\_1A\_local\_value": 702812000,  
 "IW\_GRDH\_1A\_local\_expected": 700601000,  
 "IW\_GRDH\_1A\_local\_value\_adjusted": 700601000,  
 "IW\_GRDH\_1A\_local\_percentage": 100,  
 "IW\_GRDH\_1A\_local\_status": "Complete",  
 "IW\_GRDH\_1S\_local\_value": 702812000,  
 "IW\_GRDH\_1S\_local\_expected": 700601000,  
 "IW\_GRDH\_1S\_local\_value\_adjusted": 700601000,  
 "IW\_GRDH\_1S\_local\_percentage": 100,  
 "IW\_GRDH\_1S\_local\_status": "Complete",  
 "IW\_OCN\_\_2A\_local\_value": 0,  
 "IW\_OCN\_\_2A\_local\_expected": 0,  
 "IW\_OCN\_\_2A\_local\_value\_adjusted": 0,  
 "IW\_OCN\_\_2A\_local\_status": "Unknown",  
 "IW\_OCN\_\_2S\_local\_value": 0,  
 "IW\_OCN\_\_2S\_local\_expected": 0,  
 "IW\_OCN\_\_2S\_local\_value\_adjusted": 0,  
 "IW\_OCN\_\_2S\_local\_status": "Unknown",  
 "sensing\_global\_value": 5609156000,  
 "sensing\_global\_expected": 5613156000,  
 "sensing\_global\_value\_adjusted": 5609156000,  
 "sensing\_global\_percentage": 99.92873884139333,  
 "sensing\_global\_status": "Partial"  
 }  
}

If we want to add one second tolerance for mission S1 and product type with level 0 (IW\_RAW\_\_0A, IW\_RAW\_\_0C etc …) the configuration must be :

"completeness\_tolerance": {  
 "S1": {  
 "local": {  
 ".\*0.\*": 1000000,  
 ".\*1.\*": 0,  
 ".\*2.\*": 0,  
 "default": 0  
 }  
 }  
}

Where “.\*0.\*” is a regular expression who match with product type with level 0.

The expected will become:

{  
 "IW\_RAW\_\_0A\_local\_expected": 700688000,  
 "IW\_RAW\_\_0C\_local\_expected": 700688000,  
 "IW\_RAW\_\_0N\_local\_expected": 700688000,  
 "IW\_RAW\_\_0S\_local\_expected": 700688000,  
}

### Configuration unit

|  |  |  |
| --- | --- | --- |
| **mission** | **product type** | **unit** |
| S1 | All | microsecond |
| S2 | DS | microsecond |
|  | GR | number |
|  | TL | number |
|  | TC | number |
| S3 | TBD | TBD |

# Monitored interfaces documentation

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Interface name** | **URI** | **collected file/file endpoint backup file/API endpoint** | **Type** | **Auth method** | **Extractor type** | **Target index** | **configuration file** |
| AUXIP | NA | *S1*MP\_ALL\_\_\*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-all-product-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP | NA | *S2*MP\_ALL\_\_\*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-all-product-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP | NA | *MP\_ACQ\_L0*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-product-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP | NA | *S2*\_MP\_ACQ\_*MTL*\*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-product-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP | NA | *MP\_HKTM\_*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-hktm-acquisition-product-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP | NA | *S2*MP\_DWL\_\_\*.csv | ODataCollector attachment | NA | CSVExtractor | raw-data-mp-hktm-downlink-static | maas-collector-odata-auxip-exprivia.json |
| AUXIP\_Exprivia | https://adgs.copernicus.eu | AUXIP\_Exprivia\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-auxip-product-static | maas-collector-odata-auxip-exprivia.json |
| AcqPassesStatusEDS\_INS | sentinels-eds.sentinels.eo.esa.int:21 | *OPER\_REP\_STNACQ\_INS*.EOF | FTPCollector | User/Password | XMLExtractor | raw-data-aps-per-pass-static | maas-collector-ftp-aps-per-pass-ins.json |
| AcqPassesStatusEDS\_MPS | sentinels-eds.sentinels.eo.esa.int:21 | *OPER\_REP\_STNACQ\_MPS*.EOF | FTPCollector | User/Password | XMLExtractor | raw-data-aps-per-pass-static | maas-collector-ftp-aps-per-pass-mps.json |
| AcqPassesStatusEDS\_MTI | sentinels-eds.sentinels.eo.esa.int:21 | *OPER\_REP\_STNACQ\_MTI*.EOF | FTPCollector | User/Password | XMLExtractor | raw-data-aps-per-pass-static | maas-collector-ftp-aps-per-pass-mti.json |
| AcqPassesStatusEDS\_NSG | sentinels-eds.sentinels.eo.esa.int:21 | *OPER\_REP\_STNACQ\_NSG*.EOF | FTPCollector | User/Password | XMLExtractor | raw-data-aps-per-pass-static | maas-collector-ftp-aps-per-pass-nsg.json |
| AcqPassesStatusEDS\_SGS | sentinels-eds.sentinels.eo.esa.int:21 | *OPER\_REP\_STNACQ\_SGS*.EOF | FTPCollector | User/Password | XMLExtractor | raw-data-aps-per-pass-static | maas-collector-ftp-aps-per-pass-sgs.json |
| CADIP\_Inuvik\_Files | https://ddp2.sscspace.com/ | CADIP\_Inuvik\_Files\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-aps-file-static | maas-collector-odata-aps-file-inuvik.json |
| CADIP\_Inuvik\_Sessions | https://ddp2.sscspace.com/ | CADIP\_Inuvik\_Sessions\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-aps-session-static | maas-collector-odata-aps-session-inuvik.json |
| CADIP\_Maspalomas\_Files | https://195.77.80.11:8443/cadip-interface | CADIP\_Maspalomas\_Files\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-file-static | maas-collector-odata-aps-file-maspalomas.json |
| CADIP\_Maspalomas\_Sessions | https://195.77.80.11:8443/cadip-interface | CADIP\_Maspalomas\_Sessions\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-session-static | maas-collector-odata-aps-session-maspalomas.json |
| CADIP\_Matera\_Files | https://api-cadip.e-geos.earth/cadip/1.0 | CADIP\_Matera\_Files\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-file-static | maas-collector-odata-aps-file-matera.json |
| CADIP\_Matera\_Sessions | https://api-cadip.e-geos.earth/cadip/1.0 | CADIP\_Matera\_Sessions\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-session-static | maas-collector-odata-aps-session-matera.json |
| CADIP\_Neustrelitz\_Files | https://eg37235.psmanaged.com | CADIP\_Neustrelitz\_Files\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-file-static | maas-collector-odata-aps-file-neustrelitz.json |
| CADIP\_Neustrelitz\_Sessions | https://eg37235.psmanaged.com | CADIP\_Neustrelitz\_Sessions\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-session-static | maas-collector-odata-aps-session-neustrelitz.json |
| CADIP\_Svalbard\_Files | https://cadip-api.victoriousglacier-1f7d60fd.westeurope.azurecontainerapps.io | CADIP\_Svalbard\_Files\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-file-static | maas-collector-odata-aps-file-svalbard.json |
| CADIP\_Svalbard\_Sessions | https://cadip-api.victoriousglacier-1f7d60fd.westeurope.azurecontainerapps.io | CADIP\_Svalbard\_Sessions\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-aps-session-static | maas-collector-odata-aps-session-svalbard.json |
| CDSE\_Deletion\_CSV | NA | *CDSE\_*\_DelList\*.csv | JiraExtendedCollector attachment | NA | CSVExtractor | raw-data-product-deletion-static | maas-collector-conf-cdse-deletion.json |
| CDSE\_Deletion\_XLSX | NA | *CDSE\_*\_DelList\*.xlsx | JiraExtendedCollector attachment | NA | XLSXExtractor | raw-data-product-deletion-static | maas-collector-conf-cdse-deletion.json |
| DATAFLOW | NA | Copernicus\_Ground\_Segment\_Sentinels\_Data\_Flow\_Configuration\_v\*.csv | FileCollector | NA | CSVExtractor | cds-dataflow-conf | maas-collector-csv-dataflow-configuration.json |
| DDP\_EDRS\_EDIP | 154.14.100.130:21 | \*\_DSIB.xml | FTPCollector | User/Password | EdrsDdpExtractor | raw-data-ddp-data-available-static | maas-collector-ftp-ddp-edrs.json |
| DDP\_INS-Inuvik | 80.92.129.52:22 | *COP\_REP\_PERF\_CGS-INS\_*.xls\* | ReadOnlySFTPCollector | User/Password | XLSXExtractor | raw-data-aps-product-static | maas-collector-rosftp-inu.json |
| DDP\_NSG-Neustrelitz | https://eg37235.psmanaged.com | *COP\_REP\_PREF\_CGS\_NSG*.xls\* | WebDAVCollector | Basic | XLSXExtractor | raw-data-aps-product-static | maas-collector-webdav-aps-nsg.json |
| DDP\_NSG-Neustrelitz\_XBIP | https://eg37235.psmanaged.com | \*\_DSIB.xml | WebDAVCollector | Basic | XMLExtractor | raw-data-ddp-data-available-static | maas-collector-webdav-ddp-nsg.json |
| DDP\_S5P-DLR\_DAILY | ftp1.gsn.dlr.de:2222 | [A-Z][A-Z][A-Z]*DayRep*[0-9][0-9][0-9][0-9]*[0-9][0-9][0-9]*[0-9][0-9][0-9][0-9]\_[0-9][0-9][0-9][0-9]\_X.xlsx | ReadOnlySFTPCollector | User/Password | XLSXExtractor | raw-data-aps-product-static | maas-collector-rosftp-aps-s5p-dlr.json |
| DDP\_S5P-DLR\_MONTHLY | ftp1.gsn.dlr.de:2222 | [A-Z][A-Z][A-Z]*MonthRep*[0-9][0-9][0-9][0-9]*[0-9][0-9]*[0-9][0-9][0-9][0-9]\_[0-9][0-9][0-9][0-9]\_X.xlsx | ReadOnlySFTPCollector | User/Password | XLSXExtractor | raw-data-aps-product-static | maas-collector-rosftp-aps-s5p-dlr.json |
| DDP\_S5P-DLR\_WEEKLY | ftp1.gsn.dlr.de:2222 | [A-Z][A-Z][A-Z]*WeekRep*[0-9][0-9][0-9][0-9]*[0-9][0-9]*[0-9][0-9][0-9][0-9]\_[0-9][0-9][0-9][0-9]\_X.xlsx | ReadOnlySFTPCollector | User/Password | XLSXExtractor | raw-data-aps-product-static | maas-collector-rosftp-aps-s5p-dlr.json |
| DDP\_S5P-DLR\_XBIP | ftp1.gsn.dlr.de:2222 | DCS\_*S5P*\_DSIB.xml | ReadOnlySFTPCollector | User/Password | XMLExtractor | raw-data-ddp-data-available-static | maas-collector-rosftp-ddp-s5p-dlr.json |
| DDP\_SGS-Svalbard | https://esa-copernicus.ksat.no/sentinel/SVL/ | *SVL-DAILY-SENTINEL*.xls\* | WebDAVCollector | Basic | XLSXExtractor | raw-data-aps-product-static | maas-collector-webdav-aps-svl.json |
| DDP\_SGS-Svalbard\_XBIP | https://esa-copernicus.ksat.no/sentinel/SVL/ | \*\_DSIB.xml | WebDAVCollector | Basic | XMLExtractor | raw-data-ddp-data-available-static | maas-collector-webdav-ddp-svl.json |
| DD\_ARCHIVE | NA | *OPENHUB\_catalogue*.csv | FileCollector | NA | CSVExtractor | raw-data-dd-archive-%Y | maas-collector-csv-dd-archive.json |
| DD\_DAS | https://catalogue.dataspace.copernicus.eu | DD\_DAS\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-das-product-%Y | maas-collector-odata-dd-das.json |
| DHUS\_Deletion\_CSV | NA | *DHUS\_*\_DelList\*.csv | JiraExtendedCollector attachment | NA | CSVExtractor | raw-data-product-deletion-static | maas-collector-conf-dhus-deletion.json |
| DHUS\_Deletion\_XLSX | NA | *DHUS\_*\_DelList\*.xlsx | JiraExtendedCollector attachment | NA | XLSXExtractor | raw-data-product-deletion-static | maas-collector-conf-dhus-deletion.json |
| Databudget | NA | Databudget\_v\*.csv | FileCollector | NA | CSVExtractor | raw-data-databudget-conf | maas-collector-csv-databudget-configuration.json |
| Databudget | NA | DatabudgetAUX\_v\*.csv | FileCollector | NA | CSVExtractor | raw-data-databudget-conf | maas-collector-csv-databudget-configuration.json |
| EDRS-APS | NA | EDRS*DOR*.xlsx | JiraExtendedCollector attachment | NA | EDRSApsExtractor | raw-data-aps-edrs-product | maas-collector-conf-edrs.json |
| EDRS-APS-MOR | NA | EDRS*MOR*.xlsx | JiraExtendedCollector attachment | NA | EDRSApsExtractor | raw-data-aps-edrs-product | maas-collector-conf-edrs.json |
| EDRS-APS-WOR | NA | EDRS*WOR*.xlsx | JiraExtendedCollector attachment | NA | EDRSApsExtractor | raw-data-aps-edrs-product | maas-collector-conf-edrs.json |
| Grafana\_Usage\_Preprod | NA | Grafana\_Usage\_Preprod\_\*.json | LokiCollector | NA | JSONExtractor | raw-data-grafana-usage-%Y-%m | maas-collector-grafana-usage-preprod.json |
| Grafana\_Usage\_Prod | NA | Grafana\_Usage\_Prod\_\*.json | LokiCollector | NA | JSONExtractor | raw-data-grafana-usage-%Y-%m | maas-collector-grafana-usage-prod.json |
| Grafana\_Usage\_Stage | NA | Grafana\_Usage\_Stage\_\*.json | LokiCollector | NA | JSONExtractor | raw-data-grafana-usage-%Y-%m | maas-collector-grafana-usage-stage.json |
| Jira\_CAMS\_Cloud\_Anomaly\_Correlation | NA | Jira\_CAMS\_Cloud\_Anomaly\_Correlation\*.json | JiraExtendedCollector | NA | JSONExtractor | raw-data-cams-cloud-anomaly-correlation-static | maas-collector-conf-cams-cloud.json |
| Jira\_CAMS\_Cloud\_Tickets | NA | Jira\_CAMS\_Cloud\_Tickets\*.json | JiraExtendedCollector | NA | JSONExtractor | raw-data-cams-cloud-tickets-static | maas-collector-conf-cams-cloud.json |
| Jira\_EDRS | https://moc.sdh.airbus.com | project = “OR” AND issuetype in (“Sentinel-1 Operations Report”, “Sentinel-2 Operations Report”) AND status = Delivered AND updated > {date\_criteria} ORDER BY updated ASC | JiraExtendedCollector | cookie\_based | - | - | maas-collector-conf-edrs.json |
| Jira\_OMCS\_Deletion\_CDSE | https://omcs.atlassian.net | Jira\_OMCS\_Deletion\_CDSE\_\*.json | JiraExtendedCollector | basic | JSONExtractor | raw-data-deletion-issue-static | maas-collector-conf-cdse-deletion.json |
| Jira\_OMCS\_Deletion\_DHUS | https://omcs.atlassian.net | Jira\_OMCS\_Deletion\_DHUS\_\*.json | JiraExtendedCollector | basic | JSONExtractor | raw-data-deletion-issue-static | maas-collector-conf-dhus-deletion.json |
| Jira\_OMCS\_Deletion\_LTA | https://omcs.atlassian.net | Jira\_OMCS\_Deletion\_LTA\_\*.json | JiraExtendedCollector | basic | JSONExtractor | raw-data-deletion-issue-static | maas-collector-conf-lta-deletion.json |
| LTA\_Acri | https://aip.acri-st.fr | LTA\_Acri\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-acri.json |
| LTA\_CloudFerro | https://lta.cloudferro.copernicus.eu | LTA\_CloudFerro\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-cloudferro.json |
| LTA\_Deletion\_CSV | NA | *LTA\_*\_DelList\*.csv | JiraExtendedCollector attachment | NA | CSVExtractor | raw-data-product-deletion-static | maas-collector-conf-lta-deletion.json |
| LTA\_Deletion\_XLSX | NA | *LTA\_*\_DelList\*.xlsx | JiraExtendedCollector attachment | NA | XLSXExtractor | raw-data-product-deletion-static | maas-collector-conf-lta-deletion.json |
| LTA\_Exprivia\_S1 | https://lta.exprivia.copernicus.eu/s1 | LTA\_Exprivia\_S1\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-exprivia-s1.json |
| LTA\_Exprivia\_S2 | https://lta.exprivia.copernicus.eu/s2 | LTA\_Exprivia\_S2\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-exprivia-s2.json |
| LTA\_Exprivia\_S3 | https://lta.exprivia.copernicus.eu/s3 | LTA\_Exprivia\_S3\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-exprivia-s3.json |
| LTA\_S5P\_DLR | https://s5p.clas-aip.de | LTA\_S5P\_DLR\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-s5p-dlr.json |
| LTA\_Werum | https://lta.werum.copernicus.eu | LTA\_Werum\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-lta-product-%Y-%m | maas-collector-odata-lta-werum.json |
| MPCIP\_Acri | https://opt-mpc.acri-st.fr | MPCIP\_Acri\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-mpcip-product-%Y-%m | maas-collector-odata-mpcip-acri.json |
| MPIP\_GMV | NA | MPIP\_GMV\_\*.json | MpipCollector | NA | JSONExtractor | raw-data-mpip-product-static | maas-collector-mpip-gmv.json |
| OMCS\_Monitoring | NA | MAAS-Monitoring-\*.json | InterfaceMonitorCollector | NA | JSONExtractor | raw-data-interface-probe-monitoring | maas-collector-interface-monitoring.json |
| PRIP\_S1A\_Serco | https://s1a.prip.copernicus.eu | PRIP\_S1A\_Serco\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-prip-product-%Y-%m | maas-collector-odata-last-prip-s1a.json |
| PRIP\_S1B\_DLR | https://prip.s1b.dlr.copernicus.eu/proseo/prip | PRIP\_S1B\_DLR\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-prip-product-%Y-%m | .maas-collector-odata-last-prip-s1b.json |
| PRIP\_S2A\_ATOS | https://prip.s2a.atos.copernicus.eu | PRIP\_S2A\_ATOS\_\*.json | ODataCollector | OAuth | JSONExtractorExtended | raw-data-prip-product-%Y-%m | maas-collector-odata-last-prip-s2a.json |
| PRIP\_S2B\_CAPGEMINI | https://prip.s2b.capg.copernicus.eu | PRIP\_S2B\_CAPGEMINI\_\*.json | ODataCollector | OAuth | JSONExtractorExtended | raw-data-prip-product-%Y-%m | maas-collector-odata-last-prip-s2b.json |
| PRIP\_S3A\_ACRI | https://S3A.prip.copernicus.eu | PRIP\_S3A\_ACRI\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-prip-product-%Y-%m | maas-collector-odata-last-prip-s3a.json |
| PRIP\_S3B\_SERCO | https://s3b.prip.copernicus.eu | PRIP\_S3B\_SERCO\_\*.json | ODataCollector | OAuth | JSONExtractor | raw-data-prip-product-%Y-%m | maas-collector-odata-last-prip-s3b.json |
| PRIP\_S5P\_DLR | https://s5p-oda-prip.eoc.dlr.de/proseo/prip | PRIP\_S5P\_DLR\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-prip-product-%Y-%m | maas-collector-odata-prip-s5p-dlr.json |
| Satellite-Unavailability | sentinels-eds.sentinels.eo.esa.int:21 | \*OPER\_REP\_\_SUP\_\_*.EOF* | ODataCollector attachment | User/Password | SatUnavailabilityExtractor | raw-data-sat-unavailability-product-static | maas-collector-odata-auxip-exprivia.json |
| metrics\_LTA\_Acri | https://aip.acri-st.fr | metrics\_LTA\_Acri\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-acri.json |
| metrics\_LTA\_Exprivia\_S1 | https://lta.exprivia.copernicus.eu/s1 | metrics\_LTA\_Exprivia\_S1\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-exprivia-s1.json |
| metrics\_LTA\_Exprivia\_S2 | https://lta.exprivia.copernicus.eu/s2 | metrics\_LTA\_Exprivia\_S2\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-exprivia-s2.json |
| metrics\_LTA\_Exprivia\_S3 | https://lta.exprivia.copernicus.eu/s3 | metrics\_LTA\_Exprivia\_S3\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-exprivia-s3.json |
| metrics\_LTA\_S5P\_DLR | https://s5p.clas-aip.de | metrics\_LTA\_S5P\_DLR\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-s5p-dlr.json |
| metrics\_LTA\_Werum | https://copernicus-lta.werum.de | metrics\_LTA\_Werum\_\*.json | ODataCollector | Basic | JSONExtractor | raw-data-metrics-product-%Y | maas-collector-odata-lta-metrics-werum.json |