

	 <b>CSC</b> REFERENCE SYSTEM SERVICE	Ref : COPRS-ICD-ADST-001363642 Issue : 3.0 Date : 05/09/2022 Page : 1
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## Interface Control Document Reference System Trace tailored format

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## SUMMARY

This ICD explains how an application must format its traces for the Reference System platform, so all needed information for monitoring and performance analysis can be computed.

## CHANGE LOG

Issue/Revision	Date	Change Requests	Observations
01 draft A	30/06/2022		<p>Derived from S1PDGS cloud system ICD S1PD-ICD-ADST-1000585123 issue 4.0.</p> <ul style="list-style-type: none"> <li>Set "<b>BEGIN</b>" and "<b>END</b>" in uppercase (regularisation, the code is already in line with that)</li> <li>Remove "<b>segment_strings</b>" sections.</li> <li>Move from "<b>filename_strings</b>" to "<b>filename_string</b>" when there is a single element in the list.</li> <li>For <b>SyncWithUncompressedFile</b>, replace event "<b>error</b>" by "<b>END</b>"</li> <li>Update output section of <b>MetadaExtraction</b> task</li> <li>Update <b>missing_output</b> section of <b>JobProcessing</b> task</li> <li>Add parameter <b>t0_pdgs_date</b> for <b>JobProcessing</b> task</li> <li>Annex-A list <b>outputs elements</b> for MetadaExtraction task</li> <li>Annex-B list <b>missing elements</b> for JobProcessing task</li> </ul>
01	12/07/2022		<p>Following meeting performed on the 12/07/2022, following changes have been performed :</p> <ul style="list-style-type: none"> <li>Annex-A : <b>processor_name_string</b> and <b>processor_version_string</b> are removed from Sentinel-1 &amp; Sentinel-3 Add properties satellite &amp; channel for DSIB Add properties satellite for chunks</li> <li>Annex-B : Separate Granule &amp; DataStrip for Sentinel-2. Remove <b>product_type_string</b> and <b>orbit_number_integer</b> for granule</li> <li>new Annex-C : <b>missing_elements_count_long</b> and <b>corrupted_elements_count_long</b> are moved to the "quality" section.</li> </ul>
2.0	21/07/2022		<p>Add the new <b>Aux files</b> table in Annex A with following elements:</p> <ul style="list-style-type: none"> <li><b>satellite_string</b></li> <li><b>product_class_string</b></li> <li><b>validity_start_date</b></li> <li><b>validity_stop_date</b></li> <li><b>Product_type_string</b></li> </ul>

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3.0	05/09/2022		<ul style="list-style-type: none"> <li>• TBD :</li> <li>• Split RS core and RS add-on traces into directories.</li> <li>• Move S1 specific trace to §"Mission Specific Trace"</li> <li>• Quality ?</li> </ul> <p><b>Version for RS V1.1</b></p>
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## 1. GENERAL

This document provides the **tailored** trace format for the Reference System.

The following applicable document provides the Trace format overall structure.

Document name	Reference	Version
Reference System Trace format Interface Control Document	COPRS-ICD-ADST-001048446	3.0



## 2. RS ADD-ON COMMON TASKS

### 2.1. PRODUCTION TRIGGER

follows from: 'MetadataExtraction'

(<INPUT\_TYPE> is either 'EdrsSession', 'L0Segment' or 'L0Slice')

task	event	status	message	additional keys	parentOf
ProductionTrigger	BEGIN		Received CatalogEvent for <PRODUCT_NAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch, L0EWSliceM askCheck
ProductionTrigger	END	OK	Product <PRODUCT_NAME> matches blacklist, skipping	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch, L0EWSliceM askCheck
ProductionTrigger	END	OK	Product <PRODUCT_NAME> is RAW, skipping	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch, L0EWSliceM askCheck
ProductionTrigger	END	OK	Product <PRODUCT_NAME> is not over sea, skipping	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch
ProductionTrigger	END	OK	Product <PRODUCT_NAME> is not intersecting EW slice mask, skipping	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	L0EWSliceM askCheck, Dispatch
ProductionTrigger	END	OK	lpfPreparationJob for product <PRODUCT_NAME> created	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch, L0EWSliceM askCheck
ProductionTrigger	END	NOK	Error on handling CatalogEvent: <ERRMESS>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	SeaCoverag eCheck, Dispatch, L0EWSliceM askCheck

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task	event	status	message	additional keys	parentOf
Dispatch	BEGIN		Dispatching AppDataJob <ID> <INPUT_TYPE> <PRODUCT_NAME>	<pre>"input":{   "job_id_long": &lt;JOB_ID&gt;,   "filename_string":[&lt;FILENAME&gt;],   "input_type_string":&lt;INPUT_TYPE&gt; }</pre>	
Dispatch	END	OK	AppDataJob <ID> for <INPUT_TYPE> <PRODUCT_NAME> dispatched	<pre>"input":{   "job_id_long": &lt;JOB_ID&gt;,   "filename_string":[&lt;FILENAME&gt;],   "input_type_string":&lt;INPUT_TYPE&gt; }</pre>	
Dispatch	END	NOK	Error on dispatching AppDataJob <ID> for <INPUT_TYPE> <PRODUCT_NAME>: <ERRMESS>	<pre>"input":{   "job_id_long": &lt;JOB_ID&gt;,   "filename_string": [&lt;FILENAME&gt;],   "input_type_string": &lt;INPUT_TYPE&gt; }</pre>	

## 2.2. IPF PREPARATION WORKER

follows from: 'ProductionTrigger'

task	event	status	message	additional keys
TaskTableLookup	BEGIN		Start associating TaskTables to AppDataJob <ID>	<pre>"input":{   "filename_string":"&lt;FILENAME&gt;" }</pre>
TaskTableLookup	END	NOK	No TaskTables found for AppDataJob <ID>	<pre>"input":{   "filename_string":"&lt;FILENAME&gt;" }</pre>
TaskTableLookup	END	NOK	Error associating TaskTables to AppDataJob <ID>: <ERRMESS>	<pre>"input":{   "filename_string":"&lt;FILENAME&gt;" }</pre>
TaskTableLookup	END	OK	END associating TaskTables to AppDataJob <ID>	<pre>"input":{   "filename_string":"&lt;FILENAME&gt;" }  "output":{   "tasktable_strings":[&lt;FILENAME&gt;] }</pre>
JobGenerator	BEGIN		Start job generation	
JobGenerator	END	OK	END job generation	<pre>"output":{   "job_order_id_string":     &lt;jobOrderName&gt;,   "job_order_parameters_object": {     &lt;key_TYPE_NUMBER_1&gt;_double:       &lt;TYPE_NUMBER_value1&gt;,     &lt;key_TYPE_DATENUMBER_2&gt;_date:       &lt;TYPE_DATENUMBER_value2&gt;,     ...     &lt;key_TYPE_STRING_N&gt;_string:       &lt;TYPE_STRING_valueN&gt;   } }</pre>
JobGenerator	END	NOK	Error on job generation <MESSAGE>	

### 2.3. IPF EXECUTION WORKER

follows from: 'JobGenerator'

task	event	status	message	additional keys	parentOf
JobProcessing	BEGIN		Start job processing	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;],   "job_order_id_string":&lt;jobOrderId&gt;,   "ipf_release_string":&lt;ipfRelease&gt;,   "etad_activation_mode_string":&lt;ETAD_MODE&gt; }</pre>	ObsRead, Processing, OQC, ObsWrite, GhostHandling
JobProcessing	END	OK	END job processing	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;],   "job_order_id_string": &lt;jobOrderId&gt;,   "ipf_release_string": &lt;ipfRelease&gt;,   "etad_activation_mode_string": &lt;ETAD_MODE&gt; }  "output":{   "filename_strings": [&lt;INPUTS&gt;],   "debug": &lt;VALUE_OF_DEBUG_FLAG&gt;,   "t0_pdgs_date" : &lt;DATE&gt; }  "missing_output":[ {   "product_metadata_custom_object":   {     "key1" : "value1",     "key2" : "value2" ...   },   "end_to_end_product_boolean": &lt;BOOLEAN&gt;,   "estimated_count_integer": &lt;INTEGER&gt; }]</pre> <p>The ANNEX-B provides the key/value parameters for section product_metadata_custom_object</p>	ObsRead, Processing, OQC, ObsWrite, GhostHandling

task	event	status	message	additional keys	parentOf
JobProcessing	END	NOK	<ERR_CODE> <MESSAGE>	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;],   "job_order_id_string": &lt;jobOrderId&gt;,   "etad_activation_mode_string":     &lt;ETAD_MODE&gt; }</pre> <pre>"missing_output":[ {   "product_metadata_custom_object":     {       "key1" : "value1",       "key2" : "value2" ...     },   "end_to_end_product_boolean":     &lt;BOOLEAN&gt;,   "estimated_count_integer": &lt;INTEGER&gt; }]</pre> <p>The ANNEX-B provides the key/value parameters for section product_metadata_custom_object</p>	ObsRead, Processing, OQC, ObsWrite, GhostHandling
JobProcessing	END	NOK	Interrupted job processing	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;],   "job_order_id_string":     &lt;jobOrderId&gt;,   "etad_activation_mode_string":     &lt;ETAD_MODE&gt; }</pre> <pre>"missing_output":[ {   "product_metadata_custom_object":     {       "key1" : "value1",       "key2" : "value2" ...     },   "end_to_end_product_boolean":     &lt;BOOLEAN&gt;,   "estimated_count_integer": &lt;INTEGER&gt; }]</pre> <p>The ANNEX-B provides the key/value parameters for section product_metadata_custom_object</p>	ObsRead, Processing, OQC, ObsWrite, GhostHandling

task	event	status	message	additional keys	parentOf
Processing	BEGIN		Start <LEVEL> processing		ProcessingTask
Processing	END	OK	END <LEVEL> processing		ProcessingTask
Processing	END	NOK	<ERR_CODE> <MESSAGE>		ProcessingTask
ProcessingTask	BEGIN		Start Task <BIN_PATH>		
ProcessingTask	END	OK	END Task <BIN_PATH> with exit code <EXIT_CODE>		
ProcessingTask	END	NOK	Interrupted Task <BIN_PATH>		
ProcessingTask	END	NOK	<ERR_CODE> <MESSAGE>		
OQC	BEGIN		Start OQC for product <PRODUCTNAME>	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] }</pre>	
OQC	END	OK	END OQC for product <PRODUCTNAME> (<OQCFLAG>)	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] }  "output":{   "oqc_result_string": [&lt;INPUTS&gt;] }</pre>	
OQC	END	NOK	Error on OQC for product <PRODUCTNAME> (<OQCFLAG>)	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] }</pre>	

## 2.4. OBS CLIENT

task	event	status	message	additional keys
ObsRead	BEGIN		Start downloading from OBS	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; }</pre>
ObsRead	END	OK	END downloading from OBS	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; } "data_rate_mebibytes_sec":&lt;RATE&gt; "data_volume_mebibytes":&lt;SIZE&gt;</pre>
ObsRead	END	NOK	Error on downloading from OBS: <MESSAGE>	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; }</pre>
ObsWrite	BEGIN		Start uploading to OBS	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; }</pre>
ObsWrite	END	OK	END uploading to OBS	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; } "data_rate_mebibytes_sec":&lt;RATE&gt; "data_volume_mebibytes":&lt;SIZE&gt;</pre>
ObsWrite	END	NOK	Error on uploading to OBS: <MESSAGE>	<pre>"input":{   "bucket_string": &lt;bucketName&gt;,   "filename_string": &lt;FILENAME&gt; }</pre>

### 3. RS ADD-ON MISSION SPECIFIC TASKS

#### 3.1. SENTINEL-1 SPECIFIC

##### 3.1.1. Ghost handling

task	event	status	message	additional keys	parentOf
GhostHandling	BEGIN		Checking if <FILENAME> is a ghost candidate	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] }</pre>	
GhostHandling	END	OK	<FILENAME> (<FAMILY>) is not a ghost candidate	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] } "output":{   "is_ghost_candidate_boolean": false }</pre>	
GhostHandling	END	OK	<FILENAME> (<FAMILY>) is a ghost candidate	<pre>"input":{   "filename_strings": [&lt;INPUTS&gt;] } "output":{   "is_ghost_candidate_boolean": true }</pre>	



### 3.1.2. OverpassCoverageCheck

task	event	status	message	additional keys	parentOf
OverpassCoverageCheck	BEGIN		Checking overpass coverage	<pre>"input":{   "filename_string":   [&lt;FILENAME&gt;] }</pre>	
OverpassCoverageCheck	END	OK	Product <PRODUCT_NAME> is over overpass	<pre>"input":{   "filename_string":   [&lt;FILENAME&gt;] }</pre> <pre>"output": {   "over_overpass_boolean":   true }</pre>	
OverpassCoverageCheck	END	OK	Product <PRODUCT_NAME> is not over overpass	<pre>"input":{   "filename_string":   &lt;FILENAME&gt; }</pre> <pre>"output": {   "over_overpass_boolean":   false }</pre>	
OverpassCoverageCheck	END	NOK	OverpassCoverage check failed: <ERRMESS>	<pre>"input":{   "filename_string":   &lt;FILENAME&gt; }</pre>	

### 3.1.3. L0EWSliceMaskCheck

task	event	status	message	additional keys	parentOf
L0EWSliceMaskCheck	BEGIN		Checking if L0 EW slice <PRODUCT_NAME> is intersecting mask	<pre>"input":{   "filename_string": [&lt;FILENAME&gt;] }</pre>	
L0EWSliceMaskCheck	END	OK	L0 EW slice <PRODUCT_NAME> is intersecting mask	<pre>"input":{   "filename_string": [&lt;FILENAME&gt;] }</pre> <pre>"output": {   "intersects_mask_boolean": true }</pre>	
L0EWSliceMaskCheck	END	OK	L0 EW slice <PRODUCT_NAME> is not intersecting mask	<pre>"input":{   "filename_string": [&lt;FILENAME&gt;] }</pre> <pre>"output": {   "intersects_mask_boolean": false }</pre>	
L0EWSliceMaskCheck	END	NOK	L0 EW slice check failed: <ERRMESS>	<pre>"input":{   "filename_string": [&lt;FILENAME&gt;] }</pre>	

### 3.1.4. SeaCoverageCheck

task	event	status	message	additional keys	parentOf
SeaCoverageCheck	BEGIN		Checking sea coverage for <PRODUCT_NAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	
SeaCoverageCheck	END	OK	Product <PRODUCT_NAME> is over sea	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }  "output": {   "over_sea_boolean": true }</pre>	
SeaCoverageCheck	END	OK	Product <PRODUCT_NAME> is not over sea	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }  "output": {   "over_sea_boolean": false }</pre>	
SeaCoverageCheck	END	NOK	SeaCoverage check failed: <ERRMESS>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	

### 3.1.5. RfiMitigation

task	event	status	message	additional keys	parentOf
RfiMitigation	BEGIN		Start extraction of RFI metadata from product <PRODUCT_NAME>		
RfiMitigation	END	OK	END extraction of RFI metadata from product <PRODUCT_NAME>	<pre> "output": {   "ll_product_name_string": &lt;FILENAME&gt;,   "rfi_mitigation_performed_string":     "NotSupported Never BasedOnNoiseMeas Always",   "rfi_number_polarisations_detected_integer":&lt;NUMBER_OF_DETECTED_POLARISATIONS&gt;,   "rfi_number_polarisations_mitigated_integer":&lt;NUMBER_OF_MITIGATED_POLARISATIONS&gt; } </pre>	
RfiMitigation	END	NOK	<ERR_CODE> <MESSAGE>		

### 3.1.6. SegmentTimeliness

SegmentTimeliness	BEGIN		Start timeliness lookup for <PRODUCT_NAME>	<pre>"input":{   "datatake_id_string": &lt;DATATAKE_ID&gt;,   "satellite_string": &lt;SATELLITE&gt;,   "packet_store_strings":     [&lt;PACKET_STORE_IDS&gt;] }</pre>	
SegmentTimeliness	END	NOK	No timeliness configured for packetStoreID <PACKET_STORE_ID> with packetStoreType <PACKET_STORE_TYPE>	<pre>"input":{   "datatake_id_string": &lt;DATATAKE_ID&gt;,   "satellite_string": &lt;SATELLITE&gt;,   "packet_store_strings":     [&lt;PACKET_STORE_IDS&gt;] }</pre>	
SegmentTimeliness	END	OK	Timeliness for <PRODUCT_NAME> is: <TIMELINESS>	<pre>"input":{   "datatake_id_string": &lt;DATATAKE_ID&gt;,   "satellite_string": &lt;SATELLITE&gt;,   "packet_store_strings":     [&lt;PACKET_STORE_IDS&gt;] } "output":{   "timeliness_string": &lt;TIMELINESS&gt; }</pre>	

### 3.1.7. Disseminator

follows from: 'Processing'

task	event	status	message	additional keys	parentOf
Dissemination	BEGIN		Start dissemination of product to outbox<OUTBOX_NAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>	OverpassCoverageCheck
Dissemination	END	OK	END dissemination of product to outbox<OUTBOX_NAME>	<pre>"input":{   "filename_string":     [&lt;FILENAME&gt;] } "data_rate_mebibytes_sec":&lt;RATE&gt; "data_volume_mebibytes":&lt;SIZE&gt;</pre>	OverpassCoverageCheck
Dissemination	END	NOK	Error on dissemination of product to outbox<OUTBOX_NAME>: <MESSAGE>	<pre>"input":{   "filename_string":     [&lt;FILENAME&gt;] }</pre>	OverpassCoverageCheck

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### 3.2. SENTINEL-2 SPECIFIC

N/A

### 3.3. SENTINEL-3 SPECIFIC

N/A

#### 4. RS CORE TASKS

##### 4.1. INGESTION TRIGGER

task	event	stat us	message	additional keys
IngestionTrigger	BEGIN		New file detected <FILENAME>	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "pickup_point_available_date": &lt;DATE&gt;   "pickup_point_detection_date": &lt;DATE&gt; }</pre>
IngestionTrigger	END	OK	File <FILENAME> created IngestionJob	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "pickup_point_available_date": &lt;DATE&gt;   "pickup_point_detection_date": &lt;DATE&gt; } "output":{   "url": [&lt;FILE_IN_INBOX_URL&gt;] }</pre>
IngestionTrigger	END	OK	File <FILENAME> is ignored by filter	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "pickup_point_available_date": &lt;DATE&gt;   "pickup_point_detection_date": &lt;DATE&gt; }</pre>
IngestionTrigger	END	NOK	File <FILENAME> is empty, ignored	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "pickup_point_available_date": &lt;DATE&gt;   "pickup_point_detection_date": &lt;DATE&gt; }</pre>



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task	event	stat us	message	additional keys
IngestionTrigger	END	NOK	File <FILENAME> could not be handled: <ERRMESS>	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "pickup_point_available_date": &lt;DATE&gt;   "pickup_point_detection_date": &lt;DATE&gt; }</pre>

## 4.2. INGESTION WORKER

follows from: 'IngestionTrigger'

task	event	status	message	additional keys	parentOf
IngestionWorker	BEGIN		Start processing of <FILE>	<pre> "input":{   "inbox_name_string": &lt;FILENAME ON INBOX&gt;    "inbox_relative_path_string": &lt;RELATIVE_PATH ON INBOX&gt;    "inbox_pickup_path_string": &lt;PICKUP_PATH ON INBOX&gt; } </pre>	ObsWrite
IngestionWorker	END	OK	END processing of <FILE>	<pre> "input":{   "inbox_name_string": &lt;FILENAME ON INBOX&gt;   "inbox_relative_path_string": &lt;RELATIVE_PATH ON INBOX&gt;   "inbox_pickup_path_string": &lt;PICKUP_PATH ON INBOX&gt; }  "output":{   "filename_string": &lt;FILENAME&gt; }  "data_rate_mebibytes_sec":&lt;RATE&gt; "data volume mebibytes":&lt;SIZE&gt; </pre>	ObsWrite
IngestionWorker	END	NOK	Error processing of <FILE>: <ERRMESS>	<pre> "input":{   "inbox_name_string": &lt;FILENAME ON INBOX&gt;,   "inbox_relative_path_string": &lt;RELATIVE_PATH ON INBOX&gt;,   "inbox_pickup_path_string": &lt;PICKUP_PATH ON INBOX&gt; } </pre>	ObsWrite

### 4.3. METADATA CATALOG TRIGGER

follows from: 'IngestionWorker' or 'Processing'

(<EVENT> is either 'ProductionEvent' or 'IngestionEvent')

task	event	status	message	additional keys
MetadataTrigger	BEGIN		Received <EVENT>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
MetadataTrigger	END	OK	Created CatalogJob for <EVENT>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
MetadataTrigger	END	NOK	Error on handling <EVENT>: <ERRMESS>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>

#### 4.4. METADATA CATALOG WORKER

follows from: 'MetadataTrigger'

task	event	status	message	additional keys	parentOf
MetadataExtraction	BEGIN		Starting metadata extraction	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>	ObsRead, SegmentTime liness
MetadataExtraction	END	OK	END metadata extraction	<pre>"input":{   "filename_string": &lt;FILENAME&gt; },  "output":{   "product_metadata_custom_object":   {     "key1" : "value1" ,     "key2" : "value2",     ...   },   "end_to_end_product_boolean" : &lt;BOOLEAN&gt;,   "timeliness_name_string" : "&lt;STRING&gt;",   "timeliness_value_seconds_integer":&lt;INTEGER&gt; }, "quality": {   "key1" : "value1" ,   "key2" : "value2",   ... }</pre> <p>The ANNEX-A provides the key/value parameters for section "product_metadata_custom_object"</p> <p>The ANNEX-C provides the key/value parameters for section "quality"</p>	ObsRead, SegmentTime liness
MetadataExtraction	END	NOK	Metadata extraction failed: <ERRMESS>	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>	ObsRead, SegmentTime liness

#### 4.5. COMPRESSION TRIGGER

follows from: 'Processing'

task	event	status	message	additional keys
CompressionTrigger	BEGIN		Start handling of event for <PRODUCTNAME>	<pre>"input":{   "filename_string":&lt;PRODUCTNAME&gt; }</pre>
CompressionTrigger	END	NOK	Error on handling event for <PRODUCTNAME> : <ERRMESS>	<pre>"input":{   "filename_string":&lt;PRODUCTNAME&gt; }</pre>
CompressionTrigger	END	OK	END handling of event for <PRODUCTNAME>	<pre>"input":{   "filename_string":&lt;PRODUCTNAME&gt; }</pre>

#### 4.6. COMPRESSION WORKER

follows from: 'CompressionTrigger'

task	event	status	message	additional keys	parentOf
CompressionProcessing	BEGIN		Start compression processing	<pre>"input":{   "filename_string":&lt;PRODUCTNAME&gt; }</pre>	ObsRead, ObsWrite
CompressionProcessing	END	OK	END compression processing	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre> <pre>"output":{   "filename_string":&lt;FILENAME.zip&gt; }</pre>	ObsRead, ObsWrite
CompressionProcessing	END	NOK	<ERR_CODE> <MESSAGE>	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>	ObsRead, ObsWrite
CompressionProcessing	END	NOK	Interrupted job processing"	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>	ObsRead, ObsWrite

#### 4.7. PRIP FRONTEND

task	event	status	message	additional keys
PripTempDownloadUrl	BEGIN		Creating temporary download URL for obsKey <KEY> for user <USER>	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "user_name_string": "not defined", }</pre>

task	event	status	message	additional keys
PripTempDownloadUrl	END	OK	Temporary download URL for obsKey <KEY> for user <USER>	<pre>"input":{   "filename_string": &lt;FILENAME&gt;,   "user_name_string": "not defined", }</pre>
PripTempDownloadUrl	END	NOK	Error on creating download URL for obsKey <KEY> for user <USER>: <ERRMESS>	<pre>"input":{   "filename_string": &lt;FILENAME&gt;   "user_name_string": "not defined", } "output":{   "download_url_string": [&lt;TEMP_DOWNLOAD_URL&gt;] }</pre>

#### 4.8. PRIP TRIGGER

follows from: 'CompressionProcessing'

task	event	status	message	additional keys
PripTrigger	BEGIN		Handling event for <OBS_KEY>	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>
PripTrigger	END	OK	END Handling event for <OBS_KEY>	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>
PripTrigger	END	NOK	Error on handling event for <OBS_KEY>: <ERRMESS>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>

#### 4.9. PRIP WORKER

follows from: 'PripTrigger'

task	event	status	message	additional keys
PripWorker	BEGIN		Publishing file <PRODUDCT_NAME> in PRIP	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>
PripWorker	END	OK	Publishing file <PRODUDCT_NAME> in PRIP	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }, "output":{   "prip_storage_date":&lt;STORAGE_DATE&gt; }</pre>
PripWorker	END	NOK	Publishing file <PRODUDCT_NAME> in PRIP	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>



#### 4.10. DATA LIFECYCLE TRIGGER

follows from: 'Processing', 'IngestionWorker', 'CompressionProcessing'

task	event	status	message	additional keys
DataLifecycleTrigger	BEGIN		Handling event for <PRODUCT_NAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
DataLifecycleTrigger	END	OK	END handling event for <PRODUCT_NAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
DataLifecycleTrigger	END	NOK	Error handling event for <PRODUCT_NAME>: <MESSAGE>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>

#### 4.11. EVICTION MANAGEMENT WORKER

follows from: 'DataLifecycleTrigger'

task	event	status	message	additional keys
EvictionManagementWorker	BEGIN		Starting eviction of <FILENAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
EvictionManagementWorker	END	OK	Eviction of <FILENAME> was successful	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
EvictionManagementWorker	END	NOK	Error evicting <FILENAME>: <MESSAGE>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>

#### 4.12. DATA REQUEST WORKER

follows from: 'DataLifecycleTrigger'

task	event	status	message	additional keys
DataRequestWorker	BEGIN		Starting data request of <FILENAME>	<pre>"input":{   "filename_string":&lt;FILENAME&gt; }</pre>
DataRequestWorker	END	OK	Data request of <FILENAME> with request type <TYPE> was successful	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre> <pre>"output":{   "data_request_type_string":     &lt;TYPE&gt; }</pre> <p>&lt;TYPE&gt; can be: "UNCOMPRESS" or "ORDER"</p>
DataRequestWorker	END	NOK	Error requesting data of <FILENAME>: <MESSAGE>	<pre>"input":{   "filename_string": &lt;FILENAME&gt; }</pre>

#### 4.13. VALIDATION

task	event	status	message	additional keys	parentOf
ValidationService	BEGIN		Starting validation		ValidateMDC
ValidationService	END	OK	END validation		ValidateMDC
ValidationService	END	NOK	Error occurred while performing validation: <MESSAGE>		ValidateMDC
ValidateMDC	BEGIN		Starting validation task from <DATE> to <DATE> for family <FAMILY>		ValidateObs
ValidateMDC	END	OK	No discrepancies found		ValidateObs

task	event	status	message	additional keys	parentOf
ValidateMDC	END	NOK	Discrepancies found for following products: <LIST_OF_PRODUCTS>		ValidateObs
ValidateMDC	END	NOK	Error occurred while performing metadata catalog query task: <ERR_MESS>		
ValidateObs	BEGIN		Validating <OBS_KEY>		
ValidateObs	END	OK	<OBS_KEY> is valid		
ValidateObs	END	NOK	<OBS_KEY> is invalid		
SyncDataLifecycleIndexFromOBS	BEGIN		Start synchronising		SyncFamily
SyncDataLifecycleIndexFromOBS	END	OK	Synchronisation was successful, stats: <STATS>		SyncFamily
SyncDataLifecycleIndexFromOBS	END	NOK	END of synchronisation with errors, stats <STATS>		SyncFamily
SyncFamily	BEGIN		Start synchronising family <FAMILY>		SyncFile
SyncFamily	END	OK	END synchronising family <FAMILY>		SyncFile
SyncFamily	END	NOK	Error synchronising family <FAMILY>, start: <START_DATE>, END: <END_DATE>: <ERROR_MESSAGE>		SyncFile
SyncFile	BEGIN		Start synchronising file <FILE>		
SyncFile	END	OK	File synchronisation was successful for <FILE>		
SyncFile	END	NOK	Error synchronising file: <FILE>: <ERROR_MESSAGE>		
SyncDataLifecycleIndexWithOBS	BEGIN		Start synchronising		SyncWithUncompressedStorage, SyncWithCompressedStorage
SyncDataLifecycleIndexWithOBS	END	OK	Synchronisation was successful, stats for uncompressed storage: <STATS>, stats for compressed storage: <STATS>		SyncWithUncompressedStorage, SyncWithCompressedStorage

task	event	status	message	additional keys	parentOf
SyncDataLifecycleIndexWithOBS	END	NOK	END of synchronisation with errors, stats for uncompressed storage: <STATS>, stats for compressed storage: <STATS>		SyncWithUncompressedStorage, SyncWithCompressedStorage
SyncWithUncompressedStorage	BEGIN		Start synchronising data lifecycle index with uncompressed storage		SyncWithUncompressedFile
SyncWithUncompressedStorage	END	OK	END synchronising data lifecycle index with uncompressed storage		SyncWithUncompressedFile
SyncWithUncompressedStorage	END	NOK	Error synchronising data lifecycle index with uncompressed storage, start: <START_DATE>, END: <END_DATE>: <ERROR_MESSAGE>		SyncWithUncompressedFile
SyncWithCompressedStorage	BEGIN		Start synchronising data lifecycle index with compressed storage		SyncWithCompressedFile
SyncWithCompressedStorage	END	OK	END synchronising data lifecycle index with compressed storage		SyncWithCompressedFile
SyncWithCompressedStorage	END	NOK	Error synchronising data lifecycle index with compressed storage, start: <START_DATE>, END: <END_DATE>: <ERROR_MESSAGE>		SyncWithCompressedFile
SyncWithUncompressedFile	BEGIN		Start synchronising data lifecycle index with uncompressed file <FILE>		
SyncWithUncompressedFile	END	OK	END synchronising data lifecycle index with uncompressed file <FILE>: file exists in OBS, nothing to do		
SyncWithUncompressedFile	END	OK	END synchronising data lifecycle index with uncompressed file <FILE>: file does not exist in OBS anymore, removed path from data lifecycle index		

task	event	status	message	additional keys	parentOf
SyncWithUncompressedFile	END	NOK	Error synchronising data lifecycle index with uncompressed file <FILE>: product family missing		
SyncWithUncompressedFile	END	NOK	Error synchronising data lifecycle index with uncompressed file <FILE>: <ERROR_MESSAGE>		
SyncWithCompressedFile	BEGIN		Start synchronising data lifecycle index with compressed file <FILE>		
SyncWithCompressedFile	END	OK	END synchronising data lifecycle index with compressed file <FILE>: file exists in OBS, nothing to do		
SyncWithCompressedFile	END	OK	END synchronising data lifecycle index with compressed file <FILE>: file does not exist in OBS anymore, removed path from data lifecycle index		
SyncWithCompressedFile	END	NOK	Error synchronising data lifecycle index with compressed file <FILE>: product family missing		
SyncWithCompressedFile	END	NOK	Error synchronising data lifecycle index with compressed file <FILE>: <ERROR_MESSAGE>		

## ANNEX A OUTPUT ELEMENTS FOR METADATA EXTRACTION TASK

This annex defines the properties to be extracted per mission when an element has been produced.

It defines the content for :

- Task : MetadataExtraction
- Event : END
- Keys : output.product\_metadata\_custom\_object

### 1. SENTINEL-1 LEVEL-0 PROPERTIES

Parameter name	Parameter value Sample	Format / Description
beginning_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
ending_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
platform_short_name_string	"SENTINEL-1"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
operational_mode_string	"SM"	String. Maximum 16 characters.
product_class_string	"N"	String 1 character 'A'   'C'   'N'   'S'
product_consolidation_string	"FULL"	String. Maximum 16 characters. "FULL"   "PARTIAL" Only available for segment
product_sensing_consolidation_string	"BEGIN"	String. Maximum 16 characters. "BEGIN"   "MIDDLE"   "END" Only available for segment
datatake_id_integer	120437	Integer
slice_product_flag_boolean	true	Boolean
polarisation_channels_string	"VH"	String 2 characters "VH"   "VV"   "HH"   "HV"   "SH"   "SV"
orbit_number_integer	15674	Integer
processing_level_integer	0	Set to 0.
instrument_short_name_string	"SAR"	String. Maximum 16 characters.
swath_identifier_integer	3	Integer
slice_number_integer	4	Integer

Parameter name	Parameter value Sample	Format / Description
total_slice_integer	10	Integer
packet_store_integer	25	Integer only available for segment
processor_name_string	"name"	String. Maximum 64 characters.
processor_version_string	"version"	String. Maximum 16 characters.
product_type_string	"IW_RAW_OS"	String. Maximum 16 characters.
coordinates_object	[[-12.6754,-176.1806],[-14.5135,-176.6206],[ -14.6293,-175.8987],[ -12.7889,-175.4645],[-12.6754,-176.1806]]	[ [x1,y1], [x2,y2], [x3,y3] ... ]

## 2. SENTINEL-2 LEVEL-0 PROPERTIES

Parameter name	Parameter value Sample	Format / Description
product_group_id	"GS2B_20191014T050729_013601_N02.08"	String. Maximum 64 characters.
beginning_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
ending_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
orbit_number_integer	15674	Integer
product_type_string	"MSI_LO_GR"	String. Maximum 32 characters.
platform_serial_identifier_string	"A"	String 1 character "A"   "B"   "C"
platform_short_name_string	"SENTINEL-2"	String. Maximum 16 characters.
processing_level_integer	0	Set to 0.
processor_version_string	"version"	String. Maximum 16 characters.
quality_status_integer	100	Integer
instrument_short_name_string	"MSI"	String. Maximum 16 characters
coordinates_object	[[-12.6754,-176.1806],[-14.5135,-176.6206],[ -14.6293,-175.8987],[ -12.7889,-175.4645],[-12.6754,-176.1806]]	[ [x1,y1], [x2,y2], [x3,y3] ... ]
product_consolidated_boolean	true	Boolean Used to distinguish unconsolidated and consolidated products.  <b>Not to be used if unconsolidated products are not sent to the catalog.</b>

### 3. SENTINEL-3 LEVEL-0 PROPERTIES

Parameter name	Parameter value Sample	Format / Description
beginning_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
ending_date_time_date	"2019-04-05T17:22:06.433190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
platform_short_name_string	"SENTINEL-3"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
instrument_short_name_string	"DORIS"	String. Maximum 16 characters.
orbit_number_integer	15674	Integer
processing_level_integer	0	Set to 0.
product_type_string	"DO_0_NAV__"	String. Maximum 16 characters.
processor_name_string	"name"	String. Maximum 32 characters.
processor_version_string	"version"	String. Maximum 16 characters.
coordinates_object	[[[-12.6754,-176.1806],[-14.5135,-176.6206],[-14.6293,-175.8987],[-12.7889,-175.4645],[-12.6754,-176.1806]]]	[ [x1,y1], [x2,y2], [x3,y3] ... ]

### 4. ALL MISSION PROPERTIES

- For DSIB

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-3"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
channel_identifier_integer	1	Integer. 0 or 1.

- For chunk

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-3"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"



- For auxiliary files

Parameter name	Parameter value Sample	Format / Description
satellite_string	"A"	String 1 character "A"   "B"   "C"
product_class_string	"OPER"	String. Maximum 16 characters.
validity_start_date	"2022-03-05T11:55:06.432190Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
validity_stop_date	"2022-03-07T11:59:06.442300Z"	<YYYY>-<MM>-<DD>T<hh>:<mm>:<ss>.<microseconds>Z
product_type_string	"MPL_ORBPRES"	String. Maximum 32 characters.

## ANNEX B MISSING OUTPUT ELEMENTS FOR JOBPROCESSING TASK

This annex defines the properties to be provided to define the missing outputs.

It defines the content for :

- Task : "JobProcessing"
- Event : "END"
- Keys : "missing\_output"

### 1. SENTINEL-1 LEVEL-0 MISSING OUTPUTS

- For Segment, HKTM and GPS missing product

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-1"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
product_class_string	"N"	String 1 character 'A'   'C'   'N'   'S'
slice_product_flag_boolean	true	Boolean
processing_level_integer	0	Set to 0.
product_type_string	"IW_RAW_0S"	String. Maximum 16 characters.

- For Slice Level-0, Annotation, Calibration, Noise

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-1"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
operational_mode_string	"SM"	String. Maximum 16 characters.
product_class_string	"N"	String 1 character 'A'   'C'   'N'   'S'
datatake_id_integer	120437	Integer
slice_product_flag_boolean	true	Boolean

Parameter name	Parameter value Sample	Format / Description
polarisation_channels_string	"VH"	String 2 characters "VH"   "VV"   "HH"   "HV"   "SH"   "SV"
processing_level_integer	0	Set to 0.
swath_identifier_integer	3	Integer
product_type_string	"IW_RAW__OS"	String. Maximum 16 characters.

## 2. SENTINEL-2 LEVEL-0 MISSING OUTPUTS

- For granule Level-0

Parameter name	Parameter value Sample	Format / Description
product_type_string	"MSI_LO__GR"	String. Maximum 32 characters.
platform_serial_identifier_string	"A"	String 1 character "A"   "B"   "C"
platform_short_name_string	"SENTINEL-2"	String. Maximum 16 characters.
processing_level_integer	0	Set to 0.
processor_version_string	"version"	String. Maximum 16 characters.
product_consolidated_boolean	true	Boolean Used to distinguish unconsolidated and consolidated products.

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- For DataStrip

Parameter name	Parameter value Sample	Format / Description
product_group_id	"GS2B_20191014T050729_013601_N02.08"	String. Maximum 64 characters.
product_type_string	"MSI_LO_DS"	String. Maximum 32 characters.
platform_serial_identifier_string	"A"	String 1 character "A"   "B"   "C"
platform_short_name_string	"SENTINEL-2"	String. Maximum 16 characters.
processing_level_integer	0	Set to 0.
processor_version_string	"version"	String. Maximum 16 characters. Version of the IPF.
orbit_number_integer	15674	Integer
product_consolidated_boolean	true	Boolean Used to distinguish unconsolidated and consolidated products.

### 3. SENTINEL-3 LEVEL-0 MISSING OUTPUTS

- For granules

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-3"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
instrument_short_name_string	"DORIS"	String. Maximum 16 characters.
processing_level_integer	0	Set to 0.
product_type_string	"DO_0_NAV_G"	String. Maximum 16 characters.

- For slices

Parameter name	Parameter value Sample	Format / Description
platform_short_name_string	"SENTINEL-3"	String. Maximum 16 characters.
platform_serial_identifier_string	"B"	String 1 character "A"   "B"   "C"
instrument_short_name_string	"DORIS"	String. Maximum 16 characters.
processing_level_integer	0	Set to 0.
product_type_string	"DO_0_NAV_""	String. Maximum 16 characters.
orbit_number_integer	15674	Integer

## ANNEX C QUALITY ELEMENTS FOR METADATAXTRACTION TASK

This annex defines the properties to be extracted per mission when an element has been produced.

It defines the content for :

- Task : "MetadataExtraction"
- Event : "END"
- Keys : "quality"

### 1. SENTINEL-1 QUALITY PROPERTIES

Parameter name	Parameter value Sample	Format / Description
missing_elements_count_long	12	Long To be provided if applicable to the product.
corrupted_elements_count_long	12	Long To be provided if applicable to the product.

### 2. SENTINEL-2 QUALITY PROPERTIES

N/A

### 3. SENTINEL-3 QUALITY PROPERTIES

N/A

