Sentinel-3 Metadata Indexes

DHuS Open Source Framework

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Version/Rev.	Date	Reason for Change	Pages modified
1.0	02/05/2016	First issue	

Contents

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Applicable Document

Id	Title	Reference	Issue
AD-1	OSF ICD	SPA-COPE-OSF-TN-005	1.1

Table 1 Applicable Documents

Reference Documents

Id	Title	Reference	Issue
RD-1	OData	http://www.odata.org/documentation/odata-version-2-0/	
RD-2	Apache Solr Reference Guide Covering Apache Solr 4.7	https://www.apache.org/dyn/closer.cgi/lucene/solr/ref-guide/	
RD-3	Product Data Format Specification - Product Structures	S3IPF.PDS.002	n1.6, 10/02/2015
RD-4	Product Data Format Specification - Level 0 Products	S3IPF.PDS.001	n1.7, 10/02/2015
RD-5	Product Data Format Specification – SRAL-MWR	S3IPF.PDS.003	n1.9, 10/02/2015
RD-6	Product Data Format Specification - OLCI	S3IPF.PDS.004	n1.10, 28/05/2015

RD-7	Product Data Format Specification - SLSTR	S3IPF.PDS.005	n1.11, 28/05/2015
RD-8	Product Data Format Specification - SYNERGY	S3IPF.PDS.006	n1.6, 28/05/2015

Table 2 Reference Documents

1 Open Data Indexes

1.1 Introducing the Sentinel-3 products formatting

SENTINEL-3 data products, as described in the Sentinel-3 Product Specification (see RD-3), are distributed using a SENTINEL-specific variation of the Standard Archive Format for Europe (SAFE) format specification. The SAFE format has been designed to act as a common format for archiving and conveying data within ESA Earth Observation archiving facilities.

The SENTINEL-SAFE format wraps a folder containing image data in a binary data format and product metadata in XML. This flexibility allows the format to be scalable enough to represent all levels of SENTINEL products.

A SENTINEL product refers to a directory folder that contains a collection of information. It includes:

- a 'manifest.safe' file which holds the general product information in XML
- subfolders for measurement datasets containing image data in various binary formats
- a preview folder containing 'quicklooks' in PNG format, Google Earth overlays in KML format and HTML preview files
- an annotation folder containing the product metadata in XML as well as calibration data
- a support folder containing the XML schemes describing the product XML.

The data delivered is packaged as a file structure containing a manifest file in XML format listing general product metadata and subfolders for measurement data, annotations, previews and support files.

1.2 Inspection of Product Nodes

The DHuS recognises the Sentinel-3 products at ingestion time and makes products nodes accessible through the OData Protocol. The following odata query returns the list of nodes within the document root (first level). Note that both UUID and product name are needed.

```
/odata/v1/Products['UUID']/Nodes('PRODUCT_NAME.SEN3')/Nodes
```

```
https://131.176.236.22/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_20150807T000558_0119_015_289_____SVL_O_NR_001.SEN3')/Nodes
```

An example of the xml returned by the previous query is shown below. The nodes are provided in the `<entry>` blocks.

This XML file does not appear to have any style information associated with it. The document tree is shown below.


```
▼<feed xmlns="http://www.w3.org/2005/Atom" xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/metadata"
 xmlns:d="http://schemas.microsoft.com/ado/2007/08/dataservices" xml:base="https://131.176.236.22/dhus/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-
 b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_20150807T000558_0119_015_289_____SVL_O_NR_001.SEN3')/">
 ▼<id>
    https://131.176.236.22/dhus/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-
    b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_20150807T000558_0119_015_289_____SVL_O_NR_001.SEN3')/Nodes
  </id>
  <title type="text">Nodes</title>
  <updated>2015-09-14T08:27:53.198Z</updated>
 ▼<author>
    <name/>
  </author>
  <link href="Nodes" rel="self" title="Nodes"/>
 ▼<entry>
  ▼<id>
     https://131.176.236.22/dhus/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-
     b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_20150807T000558_0119_015_289_____SVL_O_NR_001.SEN3')/Nodes('ISPAnnotation.dat')
   </id>
   <title type="text">ISPAnnotation.dat</title>
   <updated>2015-09-14T08:27:53.199Z</updated>
   <category term="DHuS.Node" scheme="http://schemas.microsoft.com/ado/2007/08/dataservices/scheme"/>
   <link href="Nodes('ISPAnnotation.dat')" rel="edit" title="Node"/>
   <link href="Nodes('ISPAnnotation.dat')/$value" rel="edit-media" type="application/octet-stream"/>
   <link href="Nodes('ISPAnnotation.dat')/Nodes" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/related/Nodes" title="Nodes"
   type="application/atom+xml;type=feed"/>
   <link href="Nodes('ISPAnnotation.dat')/Attributes" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/related/Attributes" title="Attributes"
   type="application/atom+xml;type=feed"/>
   <link href="Nodes('ISPAnnotation.dat')/Class" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/related/Class" title="Class"
   type="application/atom+xml;type=entry"/>
   <content type="application/octet-stream" src="Nodes('ISPAnnotation.dat')/$value"/>
  ▼<m:properties>
     <d:Id>ISPAnnotation.dat</d:Id>
     <d:Name>ISPAnnotation.dat</d:Name>
     <d:ContentType>Item</d:ContentType>
     <d:ContentLength>409050</d:ContentLength>
     <d:ChildrenNumber>0</d:ChildrenNumber>
     <d:Value m:null="true"/>
   </m:properties>
  </entry>
 ▼<entry>
```


To inspect the nodes of lower levels,

```
/odata/v1/Products['UUID']/Nodes('PRODUCT_NAME.SEN3')/Nodes('nodename')/Nodes
```

The Content Type property reveals the type of the Node content. `<d:ContentType>`

If the content type of a node is '**`Item`**' and the number of its children is 0, the node is actually a leaf and it has a value. The user might get this value by appending the string `/Value/$value` to the leaf path.

The following example will return the value of the constant in an xml file:

Getting the metadata included in the leaf '/'S3-Level-0/ 'generalProductInformation'/…' of the Product (XML response)

```
/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-
b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_
20150807T000558_0119_015_289_____SVL_O_NR_001.SEN3')/Nodes('xfdumanif
est.xml')/Nodes('XFDU')/Nodes('metadataSection')/Nodes('metadataObject
%5B4%5D')/Nodes('metadataWrap')/Nodes('xmlData')/Nodes('generalProduct
Information')/Nodes('productType')/Value/$value
```

If the node has content type different from 'item' (e.g `XML Document (eXtensible Markup Language)`, `SAFE Manifest`, etc..), the content download is allowed by appending the string `/$value` to the node path.

The following example will download the xfdumanifest.xml of a product:

Getting the manifest of a product

```
/odata/v1/Products('3fb4a1de-ac5f-4d09-aa7e-
b714a5ec66f3')/Nodes('S3A_OL_0_EFR____20130708T033958_20130708T034158_2015080
7T000558_0119_015_289_____SVL_O_NR_001.SEN3')/Nodes('xfdumanifest.xml')/$val
ue
```

2 Open Search Indexes -Sentinel-3 Metadata Indexes table

The following table contains the list of Sentinel-3 metadata indexed for Open Search.

N.B.: every open search is triggered by adding to the dhus path the string "/search?q=" followed by the example provided in the last column below.

2.1 Sentinel-3 Primary Metadata

The following table contains the list of Sentinel-3 Primary Metadata, common to all Sentinel 3 Products

Metadata Name	Index Name	Description	Example
Sensing start	beginposition	Sensing Start time of the data segment in UTC format (yyyy-mm-ddThh:mm:ss.ssssssZ)	beginposition:[2015-07-08T11:41:39.000Z TO NOW] beginposition:“2015-07-08T11:41:39.000Z”
Sensing stop	endposition	Sensing Stop time of the data segment in UTC format (yyyy-mm-ddThh:mm:ss.ssssssZ)	endposition:[2015-07-04T10:24:27.000Z TO NOW endposition:"2015-07-04T10:24:27.000Z"

Metadata Name	Index Name	Description	Example
NSSDC identifier	platformidentifier	Univocally identifies the mission according to standard defined by the World Data Centre for Satellite Information (WDCdlSI), available at http://nssdc.gsfc.nasa.gov/nmc/sc-query.html (0000-000A)	platformidentifier:0000-000A
Footprint	GMLfootprint	Product footprint using Geography markup language coordinates (http://en.wikipedia.org/wiki/Geography_Markup_Language).	
JTS footprint	footprint	Product footprint using Java topology suite coordinates (http://en.wikipedia.org/wiki/JTS_Topology_Suite).	footprint:"Intersects(POLYGON((-13.115927734375 27.752507427949,37.509072265625 27.752507427949,37.509072265625 61.475999093721,-13.115927734375 61.475999093721,-13.115927734375 27.752507427949)))"
Satellite	-	The expanded mission name (Sentinel-3)	
Satellite name	platformname	The expanded mission name (Sentinel-3)	
Satellite description	-	The description of the satellite is linked to https://sentinel.esa.int/web/sentinel/missions/sentinel-	

Metadata Name	Index Name	Description	Example
		3	
Satellite number	-	An alphanumeric identifier of the platform within the mission (A or B)	
Mission type	-	Mission type: Earth Observation	
Operator	-	European Space Agency	
Instrument	-	An acronym for the instrument name. Possible values are: - OLCI - SLSTR - SRAL - DORIS - MWR - GNSS - SYNERGY - HKTM - NAVATT	
Instrument name	instrumentname	Instrument name. Possible values are: - Ocean Land Colour Instrument - Sea and Land Surface Temperature Radiometer - Sar Radar ALtimeter - Doppler Orbitography and Radiopositionning Integrated by Satellite - Microwave Radiometer - Global Navigation Satellite System - Synergy	instrumentname:"Ocean Land Colour Instrument"

Metadata Name	Index Name	Description	Example
		- Housekeeping Telemetry - Navigation and Attitude data	
Instrument abbreviation	instrumentshortname	An acronym for the instrument name. Possible values are: - OLCI - SLSTR - SRAL - DORIS - MWR - GNSS - SYNERGY - HKTM - NAVATT	instrumentshortname:OLCI
Instrument mode	sensoroperationalmode	Instrument mode used to acquire the data segment. Possible values are: - Earth Observation - Radiometric Calibration - Radiometric Calibration Spectral Relaxed - Spectral Calibration - Calibration - Navigation - Satellite	sensoroperationalmode:"Earth Observation"
Mode	mode	Identifier of the instrument mode. Values: - EO - RAC	mode:EO

Metadata Name	Index Name	Description	Example
		- RACSR - SC - CAL - NAV - SAT	
Leap Second (s)	leapsecond	Signed duration of the leap second (leap second sign is positive if difference between GPS time and UTC is increasing). Values: - 1 - -1	
Leap Second Occurrence	leapsecondoccurrence	Time of occurrence of leap second in UTC format (if leap second occurred in the product time window); it represents the time after the leap second occurrence (i.e. midnight of day after the leap second)	
Product Type	producttype	Product identification corresponding to the concatenation between the Data Source (2*uc), Processing Level (1*uc) and the Data Type (6*uc) fields of the product name (e.g. OL_1_ERR___ , ref. Sentinel 3 PDGS File Naming Convention)	producttype:OL_0_EFR___
Product Level	productlevel	Product Level. Values are: - L0 - L1 - L2	productlevel::L1

Metadata Name	Index Name	Description	Example
Format	format	Product file format (e.g. SAFE)	format:SAFE
Filename	filename	Product name	
Timeliness Category	timeliness	2 uppercase letters/digits indicating the applicability of the file in terms of timeliness (XX in the class_id of the filename). Values: - Near Real Time - Short Time Critical - Non Time Critical	timeliness:"Near Real Time"
Baseline Collection	collection	3 letters/digits indicating the baseline collection	collection:001
Creation Date	creationdate	Product Creation date Consists of 15 characters, either uppercase letters or digits and is applicable both to the Instrument Data Products and the Auxiliary Data Format: - 8 char., all digits, for the date: "YYYYMMDD", year, month, day - 1 uppercase T: "T" 6 char., all digits, for the time: "HHMMSS", hour, minutes, seconds	creationdate:"2015-08-07T00:05:58.000Z"
Ingestion Date	-	Product Ingestion date in UTC format	
Date	-	Start time of the acquisition period of the sensor in UTC format (yyyy-mm-ddThh:mm:ss.ssssssZ)	

Metadata Name	Index Name	Description	Example
Size	size	Total size of product (including all sub-files, except manifest) in bytes	size:"437.09 MB"
PDU Duration (s)	pduduration	optional field only present for frame and stripe PDU	
PDU Along Track Coordinate (s)	pdualongtrackcoord	optional field only present only for frame	
PDU Tile identifier	pdutileid	optional field only present only for tiles Values (from S3 File Naming Convention): AFRICA_____ NORTH_AMERICA____ SOUTH_AMERICA____ CENTRAL_AMERICA__ NORTH_ASIA_____ WEST_ASIA_____ SOUTH_EAST_ASIA__ ASIAN_ISLANDS____ AUSTRALASIA_____ EUROPE_____	
Orbit number (start)	orbitnumber	Absolute “start” orbit number. Indicates if the orbit number refers to the oldest or the most recent data unit. If the start and stop orbit numbers are identical, only this metadata is present. First value is 1.	orbitnumber:5351
Orbit number	lastorbitnumbe	Absolute “stop” orbit number.	lastorbitnumber:10701

Metadata Name	Index Name	Description	Example
(stop)	r	Indicates if the orbit number refers to the oldest or the most recent data unit. If the start and stop orbit numbers are different, this metadata is present.	
Orbit Direction (start)	orbitdirection	Track direction related to absolute “start” orbit number. Values: - ascending - descending	orbitdirection:ascending
Orbit Direction (stop)	lastorbitdirection	Track direction related to absolute “stop” orbit number (if available). Values: - ascending - descending	lastorbitdirection:ascending
Relative Orbit (start)	relativeorbitnumber	Relative “start” orbit number. Indicates if the relative orbit number refers to the oldest or the most recent data unit. If the start and stop orbit numbers are identical, only this metadata is present. First value is 1.	relativeorbitnumber:288
Relative Orbit (stop)	lastrelativeorbitnumber	Relative “stop” orbit number. Indicates if the relative orbit number refers to the oldest or the most recent data unit. If the start and stop relative orbit numbers are different, this metadata is present.	lastrelativeorbitnumber:289
Relative Orbit Direction	relorbitdir	Track direction related to relative “start” orbit number. Values:	

Metadata Name	Index Name	Description	Example
(start)		- ascending - descending	
Relative Orbit Direction (stop)	lastrelorbitdirection	Track direction related to relative “stop” orbit number (if available). Values: - ascending - descending	
Pass (start)	passnumber	Absolute “start” pass number. Indicates if the pass number refers to the oldest or the most recent data unit. If the start and stop pass numbers are identical, only this metadata is present. First value is 1..	passnumber:10701
Pass (stop)	lastpassnumber	Absolute “stop” pass number. Indicates if the pass number refers to the oldest or the most recent data unit. If the start and stop pass numbers are different, this metadata is present.	lastpassnumber:10701
Pass direction (start)	passdirection	Track direction related to absolute “start” pass number. Values: - ascending - descending	
Pass direction (stop)	lastpassdirection	Track direction related to absolute “stop” pass number (if available). Values: - ascending	

Metadata Name	Index Name	Description	Example
		- descending	
Relative Pass (start)	relpassnumber	Relative “start” pass number. Indicates if the relative pass number refers to the oldest or the most recent data unit. If the start and stop relative pass numbers are identical, only this metadata is present. First value is 1..	relpassnumber:577
Relative Pass (stop)	lastrelpassnumber	Relative “stop” pass number. Indicates if the relative pass number refers to the oldest or the most recent data unit. If the start and stop relative pass numbers are different, this metadata is present.	lastrelpassnumber:577
Relative Pass Direction (start)	relpassdirection	Track direction related to relative “start” pass number. Values: - ascending - descending	
Relative Pass Direction (stop)	lastrelpassdirection	Track direction related to relative “stop” pass number (if available). Values: - ascending - descending	
Cycle number	cyclenumber	"Cycle number to which the oldest data unit of the data object refers. First value is 1.	cyclenumber:15
Processing name	processingname	The name of the processing. This attribute is mandatory and should never be bound to the empty string.	processingname:”Data Processing”

Metadata Name	Index Name	Description	Example
		Value: DataProcessing	
Processing Level	processinglevel	The level of the output processing. Values: - 0 - 1 - 2 - 3	processinglevel:2
Processing Facility Name	procfacilityname	Name of the organisation authority responsible of the facility Value: - Land OLCI Processing and Archiving Centre [LN1] - Land SLSTR and SYN Processing and Archiving Centre [LN2] - Land Surface Topography Mission Processing and Archiving Centre [LN3] - Marine Processing and Archiving Centre [MAR] - Svalbard Satellite Core Ground Station [SVL]	
Processing Facility Organization	procfacilityorg	Explicit name of the organisation responsible of the facility. This name may be an agency or company name. Value: - European Space Agency - European Organisation for the Exploitation of Meteorological Satellites	
Online Quality Check	onlinequalitycheck	Online quality flag (based on the results of quality checks). Values (TBC by OLQC):	onlinequalitycheck:FAILED

Metadata Name	Index Name	Description	Example
		- PASSED - DEGRADED - FAILED	

Table 2-1 Sentinel-3 Primary Metadata

2.2 Sentinel-3 Secondary Metadata (L0)

The following table contains the list of Sentinel-3 Metadata specific for Level 0 Products

Metadata Name	Index Name	Description	Example
ISP Count	ispcount	Number of ISPs contained in the product	
OLCI Calibration Sequence	olcicalseq	Indicate the OLCI calibration sequence information. Values: - S01 - S02 - S03 - S04 - S05 - S06 - S07 - S08 - S09	olcicalseq:S05
OLCI Calibration Triggers	olcicaltriggers	Indicate the OLCI calibration triggers information. Values: - RAC - SPC	

Metadata Name	Index Name	Description	Example
		- NONE	
OLCI Calibration Description	olcicaldescription	Values: - RADIOMETRIC CALIBRATION - SPECTRAL CALIBRATION with DIFF1 at ORBIT N - SPECTRAL CALIBRATION with DIFF3 at ORBIT N+1 - DIFFUSER1 AGEING at ORBIT N - DIFFUSER1 AGEING at ORBIT N+1 - ORBITAL STABILITY - SPECTRAL CALIBRATION using Solar Fraunhofer lines - RADIOMETRIC CALIBRATION for observation of atmospheric absorption lines - OBSERVATION of atmospheric absorption lines	

Table 2-2 Sentinel-3 Metadata Specific for Level 0 Products

2.3 Sentinel-3 Secondary Metadata (SRAL)

The following table contains the list of Sentinel-3 Metadata specific for Specific for Level 1 and Level 2 SRAL Products.

Metadata Name	Index Name	Description	Example
Measurement Records in LRM Mode (%)	lrmpercentage	Percentage of Measurement records detected in LRM mode	lrmpercentage:[90 TO 100]
Measurement Records in SAR	sarpercentage	Percentage of Measurements records detected in SAR mode	sarpercentage:[90 TO 100]

Metadata Name	Index Name	Description	Example
Mode (%)			
Measurement Records on Land (%)	landpercentage	Percentage of Measurement records detected on land	landpercentage:[90 TO 100]
Measurement Records on Closed Sea (%)	closedseapercentage	Percentage of Measurement records detected on closed sea	closedseapercentage:[90 TO 100]
Measurement Records on Continental Ice (%)	continentalicepercentage	Percentage of Measurement records detected on continental ice	continentalicepercentage:[90 TO 100]
Measurement Records on Open Ocean (%)	openseapercentage	Percentage of Measurement records detected on open ocean	

Table 2-3 Sentinel-3 Metadata Specific for L1/L2 SRAL Products

2.4 Sentinel-3 Secondary Metadata (OLCI)

The following table contains the list of Sentinel-3 Metadata specific for Specific for Level 1 and Level 2 OLCI Products.

Metadata Name	Index Name	Description	Example
Bright Pixels (%)	brightpixels	Percentage of bright pixels.	brightpixels:[0 TO 0.5]
Saline Water Pixels (%)	salinewaterpixels	Percentage of saline water pixels	salinewaterpixels:[0 TO 0.5]

Metadata Name	Index Name	Description	Example
Coastal Pixels (%)	coastalpixels	Percentage of coastal pixels	coastalpixels:[0 TO 0.5]
Fresh Inland Water Pixels (%)	freshwaterpixels	Percentage of fresh inland water pixels	freshwaterpixels:[0 TO 0.5]
Tidal Region Pixels (%)	tidalregionpixels	Percentage of tidal region pixels	tidalregionpixels:[0 TO 0.5]
Land Pixels (%)	landpixels	Percentage of land pixels	landpixels:[0 TO 0.5]
Cloudy Pixels (%)	cloudypixels	Percentage of cloud pixels	cloudypixels:[0 TO 0.5]
ECMWF Type	ecmwf	Type of ECMWF data used	ecmwf:FORECAST

Table 2-4 Sentinel-3 Metadata Specific for L1/L2 OLCI Products

2.5 Sentinel-3 Secondary Metadata (SLSTR)

The following table contains the list of Sentinel-3 Metadata specific for Specific for Level 1 and Level 2 SLSTR Products.

Metadata Name	Index Name	Description	Example
ECMWF Type	ecmwf	Type of ECMWF data used	ecmwf:FORECAST

Table 2-5 Sentinel-3 Metadata Specific for L1/L2 SLSTR Products

2.6 Sentinel-3 Secondary Metadata (SYNERGY)

The following table contains the list of Sentinel-3 Metadata specific for Specific for Level 1 and Level 2 SYNERGY Products.

Metadata Name	Index Name	Description	Example
Snow or Ice Pixels (%)	snoworicepixels	Percentage of measurements detected on snow or continental ice (10-2 %)	snoworicepixels[* TO 12]
Saline Water Pixels (%)	salinewaterpixels	Percentage of saline water pixels.	salinewaterpixels[* TO 12]
Land Pixels (%)	landpixels	Percentage of land pixels	landpixels[* TO 12]
Coastal Pixels (%)	coastalpixels	Percentage of coastal pixels	coastalpixels[* TO 12]
Fresh Inland Water Pixels (%)	freshwaterpixels	Percentage of fresh inland water pixels	freshwaterpixels[* TO 12]
Tidal Region Pixels (%)	tidalregionpixels	Percentage of tidal region pixels	tidalregionpixels[* TO 12]
Cloudy Pixels (%)	cloudypixels	Percentage of cloudy pixels	cloudypixels[* TO 12]

Table 2-6 Sentinel-3 Metadata Specific for L1/L2 SYNERGY Products

3 Open Search Indexes -Sentinel-3 ADF Metadata Indexes table

The following table contains the list of Sentinel-3 Auxiliary Data Filemetadata indexed for Open Search.

N.B.: every open search is triggered by adding to the dhus path the string "/search?q=" followed by the example provided in the last column below.

3.1 Sentinel-3 ADF Metadata

The following table contains the list of Sentinel-3 ADF Metadata.

Metadata Name	Index Name	Description	Example
Validity start	beginposition	Validity Start time of the data segment in UTC format (yyyy-mm-ddThh:mm:ss.ssssssZ)	beginposition:[2015-07-08T11:41:39.000Z TO NOW] beginposition:“2015-07-08T11:41:39.000Z”
Validity stop	endposition	Validity Stop time of the data segment in UTC format (yyyy-mm-ddThh:mm:ss.ssssssZ)	endposition:[2015-07-04T10:24:27.000Z TO NOW endposition:"2015-07-04T10:24:27.000Z"

Metadata Name	Index Name	Description	Example
Satellite	-	The expanded mission name (Sentinel-3)	
Satellite name	platformname	The expanded mission name (Sentinel-3)	
Satellite number	-	An alphanumeric identifier of the platform within the mission (A or B)	
Product Type	producttype	Product identification corresponding to the concatenation between the Data Source (2*uc), Processing Level (1*uc) and the Data Type (6*uc) fields of the product name (e.g. OL_1_ERR___ , ref. Sentinel 3 PDGS File Naming Convention)	producttype:OL_0_EFR___
Format	format	Product file format (e.g. SAFE)	format:SAFE
Filename	filename	Product name	
Creation Date	creationdate	Product Creation date Consists of 15 characters, either uppercase letters or digits and is applicable both to the Instrument Data Products and the Auxiliary Data Format: - 8 char., all digits, for the date: “YYYYMMDD”, year, month, day - 1 uppercase T: “T” 6 char., all digits, for the time: “HHMMSS”, hour, minutes, seconds	creationdate:"2015-08-07T00:05:58.000Z"
Size	size	Total size of product (including all sub-files, except manifest) in bytes	size:"437.09 MB"
ADF Quality	adfqualitycheck	ADF quality flag (based on the results of quality checks).	adfqualitycheck:FAILED

Metadata Name	Index Name	Description	Example
Check		Values: - PASSED - DEGRADED - FAILED	

Table 3-1 Sentinel-3 ADF Metadata