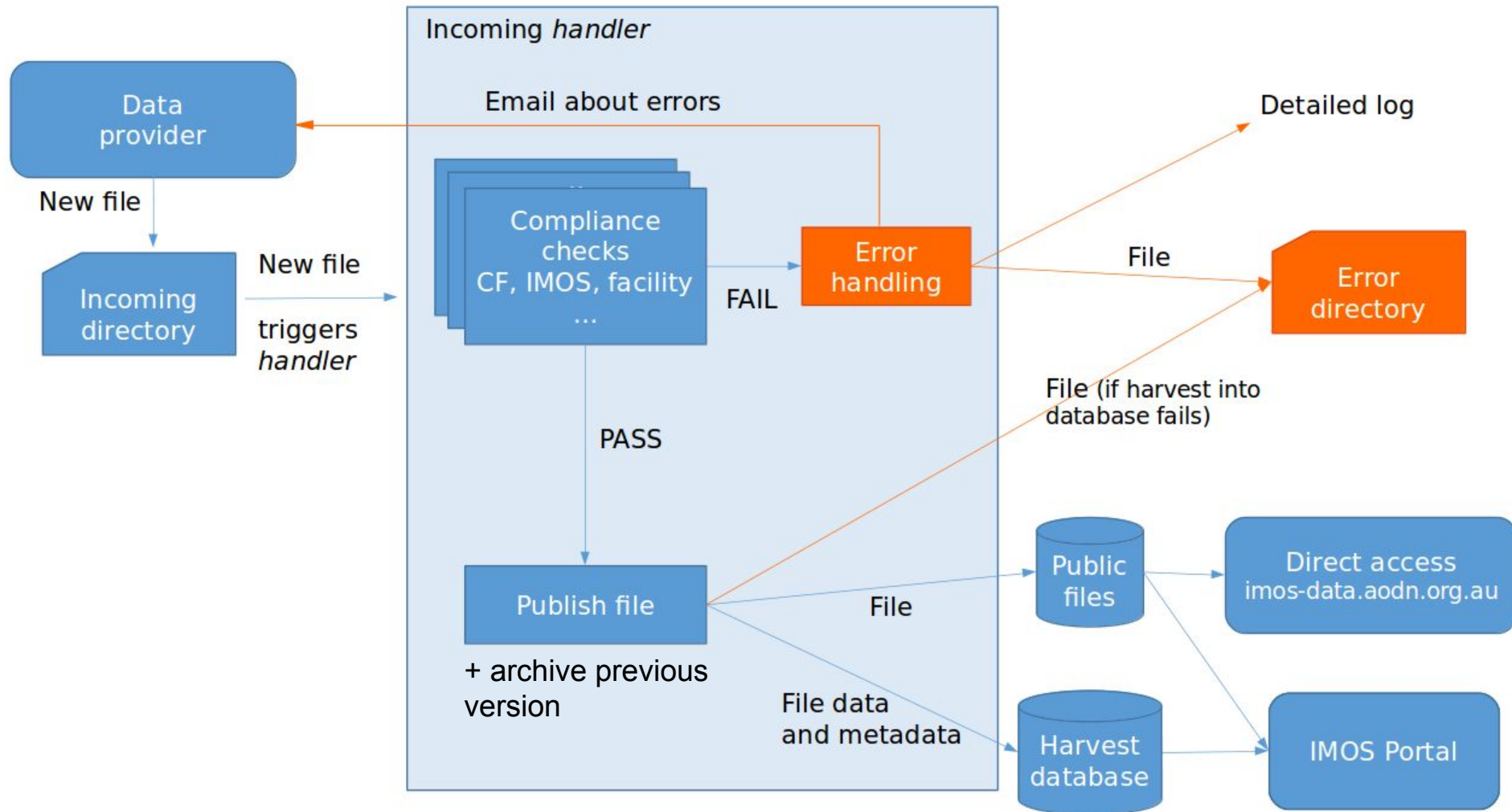


IMOS automated data publishing process

Marty Hidas

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What happens when I upload a file?



Implications for uploaders

- More specific incoming folders
- Files will “disappear” soon after upload
- For each file uploaded, possible outcomes
 1. File is published and becomes available on the portal (except non-QC files).
 2. File fails a compliance check and you receive an email with details.
 3. File passes compliance checks but harvesting into the database fails. We will get an alert at the data centre. We may contact you later if problem is in the file.
- Working towards making 3. a rare case

Implications for metadata

Metadata in each file are used to determine

- Where it should be published;
- Whether any previous versions exist;

Key attributes the pipeline relies on

- site_code
- deployment_code
- instrument
- instrument_serial_number
- instrument_nominal_depth
- file name (in particular e.g. ‘..._FV01_WATR10-1310-Aquadopp-Profiler-95_...’)

If these are inconsistent, things will fail.

Compliance checks

<http://cfconventions.org/>

http://help.aodn.org.au/help/sites/help.aodn.org.au/files/IMOS_NetCDF_Conventions.pdf

CF Conventions and Metadata

View the latest Conventions Documents

[Learn more »](#)

NetCDF CF Metadata Conventions

The conventions for CF (Climate and Forecast) metadata are designed to promote the processing and sharing of files created with the [NetCDF API](#). The CF conventions are increasingly gaining acceptance and have been adopted by a number of projects and groups as a primary standard. The conventions define metadata that provide a definitive description of what the data in each variable represents, and the spatial and temporal properties of the data. This enables users of data from different sources to decide which quantities are comparable, and facilitates building applications with powerful extraction, regridding, and display capabilities.

The CF conventions generalize and extend the [COARDS conventions](#).

Here are the slides for a talk that provides an [overview of CF](#). An expository version of this talk is in this [article](#).

Discussion about CF Metadata takes place in two formats:

CF Metadata Trac, and cf-metadata mailing list. For further explanation of each of these, take a look at the [Discussion page](#).

Quick Links

- [CF Conventions Document](#)
- [CF Standard Name Table](#)
- [CF Conventions FAQ](#)



Integrated **Marine Observing** System

FACILITY 10: eMarine Information Infrastructure (eMII)

IMOS NETCDF CONVENTIONS

Conventions and Reference Tables

Version 1.4
August, 2015

info@emii.org.au

NCRIS
National Research
Infrastructure for Australia
An Australian Government Initiative

IMOS is a national collaborative research infrastructure,
supported by Australian Government. It is led by University of
Tasmania in partnership with the Australian marine & climate
science community



NetCDF file does not comply with 'cf' conventions

← REPLY ←← REPLY ALL → FORWARD ⋮



projectofficer@10-aws-syd.emii.org.au

Thu 2016-03-10 11:25

Mark as read

To: Marty Hidas;

Running Compliance Checker on the dataset from: /mnt/ebs/tmp/tmp.vDnJLHhGps/IMOS_ANMN-NRS_MT_20150422T060648Z_NRSMAI_FV00_NRSMAI-Surface-2015-04-22-MET-realtime_END-20151006T000635Z_C-20151006T003151Z.nc

name of offending file

The dataset scored 195 out of 196 points during the cf check

Scoring Breakdown:

High Priority

Name	:Priority:	Score
Variable names	:3:	14/14
_FillValue	:3:	11/11

Medium Priority

Name	:Priority:	Score
all_features_are_same_type	:2:	0/0

scores can be ignored

bottom of message says what needs fixing

Reasoning for the failed tests given below:

Name	Priority:	Score:Reasoning
axis	:3:	12/13 :
DEPTH	:3:	3/4 :
is_coordinate_var	:3:	0/ 1 : DEPTH is not allowed to have an axis attr as it is not a coordinate var or auxiliary_coordinate_var
check_cf_role	:2:	0/ 1 : The cf_role featureType is not properly defined.
var	:2:	17/19 :
DEPTH	:2:	2/ 3 :
check_coordinates	:2:	0/ 1 : The variable DEPTH does not have associated coordinates
TEMP	:2:	2/ 3 :
check_coordinates	:2:	0/ 1 : The variable TEMP does not

Metadata query

<http://geoserver-123.aodn.org.au/geoserver/imos/ows?>

[service=WFS&](#)

[version=1.0.0&](#)

[request=GetFeature&](#)

[typeName=imos:anmn_all_map&](#)

[propertyName=url,date_created,date_published,feature_type,file_version,toolbox_version,site_code,platform_code,deployment_code,time_coverage_start,time_coverage_end](#)

[cql_filter=date_published AFTER 2016-03-01T00:00:00 AND file_version="0"&](#)

[outputFormat=csv](#)

Server address

service name

version

request type

name of table to query

list of columns to return

only return rows that meet these conditions

return result as comma-separated values (text)

Metadata query

<http://geoserver-123.aodn.org.au/geoserver/imos/ows?>

[service=WFS&](#)

[version=1.0.0&](#)

[request=DescribeFeatureType&](#)

[typeName=imos:anmn_all_map](#)