



# SeaDataCloud

Replication Manager – status of  
development

Aurélie Briand

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[sdn-userdesk@seadatanet.org](mailto:sdn-userdesk@seadatanet.org) – [www.seadatanet.org](http://www.seadatanet.org)

## Summary

- Reminder of the RM functionalities
- Status of developments
- Deployment plans

## The Replication Manager functionalities

- It handles **communications between the data centres, the MARIS CDI Import Manager and the EUDAT data Cloud**
  - allows CDI metadata & data **files ingestion**
  - **processes restricted data** user request
  - **checks CDI** files (semantic)
  - **checks data** files (semantic and format)
  - **checks** the coupling table consistency, locally and against the CDI portal
  - locally **updates BODC vocabularies** files
  - provides **administration dashboard**

## RM is a **Web application**

### RM **API** allows

- interaction with Import Manager (IM), Request Status Manager (RSM) and the data Cloud
- ingestion process
- orders process for restricted data

### RM **dashboard** gives access to

- configuration summary and checks
- logs access
- ingestion workflow

## Data management

The data files management comes from the Download Manager components

=> coupling table and data organization do not change at data centres

# Replication Manager Dashboard

[Summary](#)[Batches History](#)[LOCAL\\_CDI\\_IDs](#)

## Maintenance

[Logs](#)[External resources](#)[Coupling Table Checks](#)[Database](#)

## System

OS: linux, version 3.16.0-4-amd64 | JAVA: 1.8.0\_151 | RM API Version: 1.0 (1.0.0-SNAPSHOT)

## Configuration

[RELOAD](#)

RM configuration is valid

## Automatic parameters

parameter	value
objectdb_path	/home/sophie/Documents/workspaces/ReplicationManager/.metadata/.plugins/org.eclipse.wst.server.core/tmp1/wtpwebapps/ReplicationManager/db/batchentity.odb
harvest_path	/home/sophie/Documents/workspaces/ReplicationManager/.metadata/.plugins/org.eclipse.wst.server.core/tmp1/wtpwebapps/ReplicationManager/HARVEST

## Custom parameters

parameter	value
edmo_code	3367
test_mode	true

# Replication Manager Dashboard



Summary | Batches History | LOCAL\_CDI\_IDS

## Maintenance

### Logs

[RM logs list](#)

[RM current log](#) (For other dates, use "date" and eventually "index" parameter , eg. <http://134.246.144.130:8080/ReplicationManager/RMLog?date=2018-04-18&index=2>)

[RM Checker current log](#) (For other dates, use "date" and eventually "index" parameter , eg. <http://134.246.144.130:8080/ReplicationManager/RMLog?date=2018-04-18&index=2>)

### External resources

#### BODC vocabularies

L05 : 64

P01 : 830

C77 : 3

P02 : 108

P06 : 103

C17 : 751

P09 : 58

L23 : 9

L22 : 338

L33 : 3

#### CSR list

version 1.0 - Mon Jun 18 00:00:00 CEST 2018 (a new version is available)

UPDATE

#### Coupling Table Checks

LAUNCH CHECKER

#### Database

objectdb\_path : /home/sophie/Documents/workspaces/ReplicationManager/.metadata/plugins/org.eclipse.wst.server.core/tmp1/wtpwebapps/ReplicationManager/db/batchentity.odb

status: OK

BACKUP

## System

# Ingestion process

## Replication Manager Dashboard



Summary

Batches History

LOCAL\_CDI\_IDs

### Current batch

name	Batch global status	Batch CDIs status	Batch Data status	CDIs files	batch errors
bottle_MED_1	[INGESTION_PENDING] Ingestion started - in process	[IN_HARVEST_ZONE] Moved CDIs batch to HARVEST directory	[IN_QUEUE_ZONE] Moved to CDIs queue directory	bottle_MED_1 (1 files)	

With the RM dashboard data center managers can start the ingestion process per batches of CDI metadata files and follow the different steps of the ingestion workflow



## Status of developments

- We are still working on volume issue
  - We are making some performance tests by submitting some big batches of CDI (also for restricted case)
- We are also working on all the different error cases in order to prevent production issues

## Firsts deployments

- RM is on line at **Ifremer** since **January**
  - On test with Maris IM and EUDAT cloud
  - Used to develop the whole workflow
- RM is on line at **SHOM** server since **July**
  - Connected with MARIS CDI Import Manager
  - Feedback on installation procedure
- Next RM version will be released to 5 data centres in 2 weeks (BODC,...)

# Any questions?

