

# **OCTOPUS**USER MANUAL

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## PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

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	OCTOPUS user Manual
Long title	
OCOPUS user manual	
Short description	

## **Short description**

Octopus is a multi-formats splitter & converter tool. It replaces the following software: med2medSDN, Change\_vocab\_V1toV2, MedSDN2CFPoint, OdvSDN2CFPoint, offering a unique and ergonomic tool.

### It also allows:

- to split a multistation file into monostation ones
- to extract 1 to n stations from a multistation file and export them into another multistation file or several monostation ones.
- to check the compliancy of MedAtlas and ODV format

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Dissemination	Copyright terms

#### History

Version	Authors	Date	Comments
1.0	S. Brégent, M. Fichaut	07/01/2016	Creation
1.1	S. Brégent, M. Fichaut	04/10/2016	Add installation instructions.  Change export types names from "mono" to "split" and from "multi" to "keep"

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## 1. Introduction

Octopus is a multi-formats splitter & converter tool. It replaces the following software: med2medSDN, Change\_vocab\_V1toV2, MedSDN2CFPoint, OdvSDN2CFPoint, offering a unique and ergonomic tool.

It also allows:

- to split a multi-station file into mono-station ones
- to extract 1 to n stations from a multi-station file and export them into another multi-station file or several mono-station ones.
- to check the compliancy of MedAtlas and ODV format

Octopus can be used in interactive mode or in batch mode.

# 2. Requirements

Octopus requires java 1.8.0 60 or greater.

Octopus is available for multiple platforms: Windows, windows 64, Linux, Linux 64.

Languages: French, English

## 3. Installation

Download the Octopus software from SeaDataNet web site, under Standards & Software: http://www.seadatanet.org/Standards-Software

Copy the zip file on your computer and unzip it.

The change log is available in octopus/resources directory, in the changeLog.pdf file.

#### 3.1. Launch on windows

To launch Octopus, click on octopus.exe in the octopus directory.

#### 3.2. Launch on Linux

To launch Octopus, click on octopus.sh in the octopus directory, or launch it from a terminal:

cd octopus
./octopus.sh

### 4. Get started

### 4.1. Settings

## 4.1.1. Menu Edit/settings

This item is used to configure OCTOPUS for your own utilization. You can:



- Choose your language.
- Choose your default input and output directories. The browse button will automatically open these directories.
- Choose your EDMO code (used to convert MGD files).
- Ask Octopus to fill the local coupling table, by checking "Use coupling table" and choosing the coupling prefix (path prefix that will NOT be written in the coupling files path).
- Update external lists (EDMO codes and BODC NERC Vocabularies).

# 4.1.2. Menu Edit/Coupling table

The "Coupling Table" menu of OCTOPUS allows basic management of the content of the coupling table used by the SeaDataNet download manager to retrieve the LOCAL\_CDI\_IDs requested by a user downloading.

## 4.1.2.1. Export

This export function generates a coupling file that will be used by SeaDataNet Download Manager for retrieving stations in the files.

The coupling file used by SeaDataNet download manager is unique and called "coupling.txt". This file must not contain duplicates (the coupling file ID is LOCAI\_CDI\_ID + format) It's up to OCTOPUS user to create only one file called "coupling.txt" for SeaDataNet purpose by using the coupling table facilities.

The format of this coupling file is the following: Local\_cdi\_ID;Modus;Format;File\_name

The export function will replace the previous coupling file if the name of the export file is the same.

#### 4.1.2.2. Delete all

The delete all button is used to empty the coupling table. All records will be deleted. The table should be first exported if the user wants to keep the information in a flat file.

#### 4.2. Features

Available conversions/splits are listed in Table 1

Table 1 - Possible conversions using OCTOPUS

input→ output ↓	Med non SDN	Med SDN	ODV	CFPoint	MGDv81	MGDv98
MedSDN	<b>✓</b>	~	X	X	X	X
ODV	<b>~</b>	~	~	X	~	<b>V</b>
CFPoint	<b>✓</b>	<b>✓</b>	~	~	X	X

Input can be a file, or a directory containing several files (all files using the same format, no sub-directory).

Automatic format updates:

- For all conversion/split cases, Octopus will automatically add SDN CDI references.
- For conversion/split from MedAtlas (SDN or non SDN) to MedAtlas SDN, SDN CSR and SHIP (NVS2CON) references will be added to output file(s).
- For conversion/split from MedAtlas non SDN to MedAtlas SDN, SDN mapping lines will be added to output file(s).

# 5. Use of OCTOPUS in interactive mode

## 5.1. Open input file or directory

This step allow to select the file(s) to be converted/split.

OCTOPUS is able to process one file or one directory containing files at the same format.

There are two possible ways to open a file:

- Menu file/open file
- Write or paste the input path in the input file/directory then TAB or ENTER

There are two possible ways to open a directory:

- Menu file/open directory
- Write or paste the input path in the input file/directory then TAB or ENTER

# 5.2. Check input file(s)

Once the file of directory has been chosen, it is possible to check the format of the file(s) by clicking on the "Check the input format" button. In the case of a directory, all files are supposed to be at the same format (it is not possible to check a directory containing MedAtlas and ODV files, for example).

Only ODV and MedAtlas formats are checked in this version of OCTOPUS software.

# 5.3. Select the type of output file(s)

This feature is not available for MGD files.

The output files of OCTOPUS can be mono-station file (One LOCAL\_CDI\_ID only) or multi-station files (1 to n LOCAL\_CDI\_IDs): OCTOPUS can export each input file to one multi-stations file, or multiple mono-stations files.

<u>Note:</u> if the input is a directory, set output type to *keep* will generate a multi-station file *for each* input file (Octopus does not merge stations of different input files).

# 5.4. Select the output file or directory

Use the browse button, or write or paste the output path in the output file/directory. If input is a file, and output type is multi, you have to set a filename. Otherwise, set a directory name.

#### Note on output files names:

Except the case of one input file exported as a multi-stations file, Octopus will generate paths as described below.

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			Ouput type		
			Split	Кеер	
	Input type	File	output/local_cdi_id.ext	output	
прас суре		Directory	output/inputFileName/local_cdi_id.ext	output/inputFileName.ext	

where: - directories are in red, files are in green.

- Output is the path set in the output file/directory field
- inputFileName is the name of one input file in the input directory
- .ext is the extension of the filename: .txt for ODV, .nc for NetCDF and .free text for MedAtlas

# 6. Use of OCTOPUS in batch mode

Open a console and move to the Octopus installation directory (where the octopus.jar is)

Launch command: java -jar octopus.jar <options>

#### Usage:

octopus [-c <arg>] [-f <arg>] [-i <arg>] [-l <arg>] [-o <arg>] [-t <arg>]

Argument	O/M	Comment
-c <arg></arg>	Optional	list of local_cdi_id, eg <fi35aab, fi35aac="">, all cdi are exported if this argument is omitted</fi35aab,>
-f <arg></arg>	Mandatory	output format: <medatlas>, <odv> or <cfpoint></cfpoint></odv></medatlas>
-i <arg></arg>	Mandatory	input path:
-l <arg></arg>	Mandatory if input is MGD	local CDI Id value if input is a file, mapping file is input is a directory
-o <arg></arg>	Mandatory	output path:
-t <arg></arg>	Mandatory except if input is MGD	output type: <split> or <keep></keep></split>

#### Examples:

- Export all stations from input MedAtlas files directory to mono-stations CFPoint files java -jar octopus.jar -i "/home/input/profileDir" -o "/home/out/exportCFDirectory" -f cfpoint -t split
- Export CDI1 and CDI2 stations from input MedAtlas file to multi-stations ODV file java jar octopus.jar -i "/home/input/profile.med" -o "/home/out/exportODV1and2.txt" -f odv -t keep -c CDI1 CDI2
- Export MGD file to multi-stations ODV file using XXX as local CDI ID java jar octopus.jar -i "/home/input/mgd81.mgd77" -o "/home/out/exportODV1and2.txt" -f odv -l XXX