Geo-Seas

Pan-European infrastructure for management of marine and ocean geological and geophysical data

8 – D8.1_Ends_&_Bends_V2.1.0_Installation_Manual

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Deliverable number		Short Title	
D8.1		Ends And BendsInstallationManual	
Long Title			
Ends_And_Bends_V2.1.0_Installation_Manual			
Short Description			
This document is the installation manual of**Ends&Bends,** a software used to sample raw navigation (ship routes) and to generate the spatial objects to be included in CDI records to describe the geometries of the observations			
Keywords			
Navigation, sampling, GML, CDI, CSR			
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Deliverable due date		**Deliverable submitted date**	
NA		15 February 2011	
Comments			
Not a deliverable. Ends&Bends is a software adapted and proposed by Ifremer to partners to help them to sample their navigation files and to produce the spatial objects in the CDI and CSR xml files.			

History				
Version	**Author(s)**	**Status**	**Date**	**Comments**
V0	Eric Moussat, Sophie Bregent	FINAL	15 February 2011	On-line help delivered with the software
V1	Eric Moussat, Sophie Bregent	FINAL	26 Nov. 2011	Separate downloadable document
V2	Eric Moussat, Sophie Bregent	FINAL	03 Avr 2014	Update to 2.1.0, add CSR as keyword

Dissemination level		
PU	Public	X
CO	Confidential, for project partners and the European Commission only	

Executive Summary

Ends&Bends is used to generate spatial objects from raw navigation (ship routes) to be included in CDI records to describe the geometries of the observations :

- Typical navigation log files record more than one location / 10 seconds (ex : GPS outputs),

- Size of these navigation log files are not practical to be managed or visualized using standard GIS software or services (WMS, WFS and GML)

Navigation log files must be subset, but sub setting must:

- Keep the same geographical shape of the vessel route to allow accurate spatial queries

- Reduce significantly the number of geographical locations to preserve response time (e.g. 1000 points for one month of deep sea navigation,1000 points for a week of inshore navigation).

This document is the Installation Manual of the Ends&Bends software.

Content

1   Delivrable content

EAB.zip	binary package for Windows
EAB.tar.gz	binary package for Linux
GS_WP8_D8.1_EndsAndBends_v2.1.0_Installation_Manual.docx	Installation Manual (present document)
GS_WP8_D8.1_EndsAndBends_v2.1.0_User_Manual.docx	User Manual

Table1Delivrable content

2   Installation folder content

EAB	Installation folder	
	help	HTML user manual
	img	Ifremer, Sismer and Altran logos
	lib	libraries files folder
	EandsAndBends.jar	Executable jar file
	LaunchEndsAndBendsEnglishRelease.bat	executable script to launch Ends And Bends in English (windows only)
	LaunchEndsAndBendsFrenchRelease.bat	executable script to launch Ends And Bends in French (windows only)
	EAB.sh	Executable script (linux only)
	readme.html	Credits
	README.TXT	Build output description

Table2 Installation folder content

3   Prerequisites

The application has been developed with Java on Sun Java 1.6 virtual machines. Virtual Machines for many operating systems can be found on Sun web site (http://www.java.com/fr/download/manual.jsp).

4   Binaries installation

4.1   Windows

- Check your virtual machine by typing *java –version* in a DOS command terminal for example. If it appears you do not have any virtual machine on your computer or if its version is an older one then install the JRE 1.6.
- Copy EAB_x.xx.zip file on your hard drive (x.xx is the Ends&Bends version).
- Extract all files **preserving the tree folders** using a file archiver such as http://www.7-zip.org/.

4.2   **Linux**

- Check your virtual machine by typing *java –version* in a terminal for example. If it appears you do not have any virtual machine on your computer or if its version is an older one then install the JRE 1.6.

- Copy EAB_x.xx.tar.gz file on your hard drive (x.xx is the Ends&Bends version).

- Extract all files **preserving the tree folders**, thanks to the command line *tar –xzvf EAB_x.xx.tar.gz*.
- Check that the .bat files and EndsAndBends.jar have the proper permissions to be executed. If not use chmod to change them.

Annex A.   **References**

Annex B.   **Figures and Tables**

This is also mandatory for all deliverables

B.1.   **List of Figures**

B.2.   **List of Tables**

Annex C.   **Terminology**

This annex is also mandatory

Term	Definition
EAB	EndsAndBends : the software is also named Ends&Bends (E&B)
GIS	Geographic Information System
GML	The Geography Markup Language (GML) is the XML grammar defined by the Open Geospatial Consortium (OGC) to express geographical features
JRE	Java Runtime Environment : stands for

	virtual machine, which is able to run Java programs.
WMS	Web Map Service : an OGC standard protocol for serving georeferenced map images over the Internet that are generated by a map server using data from a GIS database
WFS	Web Feature Service : an OGC interface allowing requests for geographical features across the web using platform-independent calls

Annex D.   **Another annex**