

Financial/Administrative co-ordinator

Name: Dr. Owen Harrop,

*Address: British Maritime Technology Ltd.,
Grove House, Meridians Cross,
7 Ocean Way, Ocean Village
Southampton, SO14 3TJ, UK*

Phone Number: ++ 44 (0) 2392 232222 Fax Number: ++ 44(0) 2392 232891

E-mail: andy@bmtmis.demon.co.uk

Project websites & other access points:

www.bmtmis.com

www.marinedatabroker.com

Executive Summary

Main Achievements

- Completion of WP6
- Completion of IMGW prototype applications (WP7)
- Completion of BMT's prototype application (WP7)
- Successful Integration of all components
- Working Prototype Broker released
- Exploitation Plan enhanced
- Successful 2nd Annual Review by the EU

Progress in implementation of the 'Description of Work'

- Completion of most integration issues
- Completion of initial integration with prototype applications
- Continued internal tests successful
- Continued Bug-Fixing
- Design of Graphical User Interface (look and feel) continued

Problems encountered

- Continued Administrative problems regarding the contractual amendments
- Integration/communication issues with some components, especially on different operating systems
- Delay in completing documentation for WP6 and WP7 deliverables due to increased activity in resolving integration and deployment issues

Highlights for next reporting period

- Live Deployment of the Broker
- Kick-off of final Evaluation WP
- Deployment of RDAE at each partners site
- Completion of testing phase
- Completion of Final Reports
- Final Review (July)

Anticipated problems for next reporting period

- Potential problems with the deployment of the Broker – many unknowns

- Potential problems with installation of RDAE on different sites / operating systems / firewalls
- Possibility of unexpected bugs / issues with a full working broker in a live environment
- Impracticality of holding a workshop during the testing phase

1 – Overview

1.1 Objectives

<i>Objectives</i>	<i>Progress towards achieving objectives</i>
<p>Workpackage 1:</p> <ul style="list-style-type: none"> ❑ Ensure the smooth running of the project ❑ Maximise exchange of data and information between project participants ❑ Ensure the optimal focusing of effort towards meeting the project objectives ❑ Ensure the timely delivery of high quality deliverables to the EU <p>Workpackage 6:</p> <ul style="list-style-type: none"> ❑ Integration of the software modules developed in WP3, WP4 and WP5 into the Data Broker prototype. ❑ Detailed design and specification of the Data Broker based on the enabling technologies developed in WP3, WP4, and WP6. ❑ Development of the Data Broker GUI with the Broker Interface Component and Broker Manager integration. ❑ Development of the Broker Manager and linking to the E-commerce Manager ❑ Configuration of the host web-site and establishment of the Data Broker ❑ Development of test plan and testing of Data Broker with sample datasets. 	<p>Regular correspondence by e-mail to assess the status of each partner.</p> <p>Project Status meeting at Brussels in February 2002</p> <p>2 successful interim integration meetings (BMT and TXT).</p> <p>Many integration issues encountered, and the majority resolved</p> <p>Final integration meeting: Most integration issues resolved.</p> <p>Continued successful internal tests of dataset search, request, purchase and transfer by ftp and e-mail.</p> <p>Completion of the MO's GRIB RDAE.</p> <p>Continued code and design documentation of Broker</p> <p>Continued compilation of test datasets, and test plans.</p> <p>Completion of prototype Broker ready for live deployment</p>

1.1 Objectives – cont.

<i>Objectives</i>	<i>Progress towards achieving objectives</i>
<p>Workpackage 7:</p> <ul style="list-style-type: none"> □ Integration of the Data Broker Applet within an existing marine emergency response simulator to create an example of links between a sophisticated end user application and the Data Broker □ Development of a simple data retrieval application to demonstrate the type of web-based application that a data provider or user could construct to utilise the Data Broker service. □ Linking the 3 project participant data providers to the Data Broker 	<p>Completion of BMT's first prototype application – second version requires some small refinements.</p> <p>Successful integration with the Broker through the IF component</p> <p>Applications almost ready for deployment at each partners site.</p> <p>Completion of the two final versions of IMGW-OM's prototype application, and initial integration tests with IF component</p> <p>Refinement and initial testing of this application</p> <p>Continued documentation of the applications</p>

1.2 Milestones

<i>Milestone</i>	<i>Planned date</i>	<i>Actual date</i>	<i>Comments</i>
No milestones were scheduled for this quarter			
M06.1 Completion and Testing of code and Documentation	End of Sept. 2001	-	As was stated in the last report – this milestone was illogically scheduled, but will be completed during the testing phase in WP8 (March – June 2002).
M08.1 Completion of Data Broker Components	End of Feb. 2002	End of Feb 2002	Completed on schedule. Documentation is almost complete, and will be delivered in April/May 2002
M08.2 Integration of all components to create Data Broker Prototype	End of March. 2002	End of Mar 2002	Completed on schedule. System ready for live deployment.
M08.3 Establishment of web-based Data Broker Prototype and testing	End of March. 2002	End of March. 2002	System was deployed in a live environment on the Internet on schedule. However, due to some small deployment teething problems, will not be fully functioning until early April.
M09.1 Completion of Marine emergency response application	End of Feb. 2002	Expected by End of March. 2002	Initial application completed on schedule, although requires some further refinement to allow full testing by partners
M09.2 Completion of IMGW-OM application	End of Feb. 2002	Expected by End Feb 2002	This milestone is expected to be on time.
M09.2 – Sample web-based application for data viewing, utilising data types available on the Broker	End of March 2002	End of March 2002	Application needs some testing and further debugging
M09.3 Activation of the Data Broker with sample datasets	End of Feb. 2002	Expected by End April 2002	Slight delay in activating the Broker with live data due to unexpected deployment and live integration issues
M09.4 Testing of fully operational Data Broker and linked Applications	End of Feb. 2002	Expected by end April 2002	Slight delay in beginning testing, due to unexpected deployment and live integration issues
Milestones foreseen for the forthcoming quarter:			
M10.1 Commissioning of System at user participant facilities	End of March	End of April	Slight delay due to unexpected deployment and live integration issues
M10.2 Structured evaluation exercise at both end user and data provider sites	End of May	End of May	On schedule
M10.3 Draft reports on assessment	Mid June	Mid June	On schedule
M10.4 Workshop to discuss Data Broker user assessment and exploitation potential	Mid June	NA	It has been decided by the consortium that a workshop during the testing phase is not practical. As no external users will

			<p>have tested the system at this stage, there will be no point in inviting anyone outside the consortium. Discussion amongst the partners can occur by e-mail / conference calls. It will therefore be more beneficial to organise a promotional workshop after the testing phase, once issues raised during the testing have been resolved</p>
<p>M10.5 Final Reports on user assessment and exploitation potential</p>	<p>End of June</p>	<p>Mid July</p>	<p>It is expected to collate all draft reports from partners by mid June, and to issue the final reports to the EU by mid – July, one week before the Review.</p>

1.3 Deliverables – This period

<i>Deliverable Code & Name</i>	<i>Planned delivery date</i>	<i>Actual delivery date</i>	<i>Comments</i>
D08 Design, Code and documentation for the Data Broker (including Test Plan)	End of March 2002	Expected Mid May 2002	Due to unexpected deployment and live integration issues, the documentation of the Broker has been slightly delayed, although the Broker has been completed.
D08.1 Established Data Broker on test Web Site	End of March 2002	Early April	Although the system was deployed on schedule, there some unexpected deployment and live integration issues, which will mean the site will be ready for testing by early – mid April
D08.2 Test Results against test Plan	End of March 2002	Expected End of May 2002	This deliverable is illogically scheduled, as it will not be possible to test it until the broker is completed and placed in a live environment, which is not scheduled for completion until end of March 2002. Testing is due for completion by end of May
D09 Data Broker activated with test data	End of Feb 2002	Expected End of April 2002	This deliverable was illogically scheduled, as it was not be possible to activate the broker until the broker was complete. Due to unexpected deployment and live integration issues, the datasets are unlikely to activated until the end of April
D09.1 Example application for marine emergency response	End of Feb 2002	Expected mid-May 2002	This deliverable was illogically scheduled, as it was not possible to activate the broker until the broker is complete – which was not scheduled for completion until end of March 2002. The application will be deployed at test sites by mid-May
D09.3 Second application for viewing data	End of Feb 2002	End of March 2002	The deliverable was illogically scheduled. It is now complete, and but will need some testing and further debugging
Deliverables Due for Forthcoming Period			
D10.1 Structured Evaluation Protocols for the system evaluation at user and provider sites (Test Plans)	End of Feb	End of Feb	Test Plans completed and circulated amongst partners by End of Feb. These are likely to be refined throughout the testing phase however.
D10.2 Report on the end user evaluation of the prototype performance	Mid June	-	On schedule
D10.3 Report on the data provider evaluation of the prototype performance	Mid June	-	On schedule
D10.4 Report on the assessment of exploitation potential	Mid June	-	On schedule

1.4 Deviations from Plan

<i>Causes and Description</i>	<i>Corrective actions</i>
No new deviations to report, other than the slight delay in the delivery of documentation, already discussed above.	

2 – Contractual Arrangements

--

3 - Project Meetings (held and foreseen)

<i>Title</i>	<i>Date and Place</i>	<i>Main conclusions</i>
Integration Meeting	10 th January 2002 – TXT offices in Milan	Majority of integration issues resolved - although some still outstanding
Integration Meeting	14 th February 2002 – BMT Offices	Final Integration resolved in preparation for the review
Project Status Meeting	18 th February 2002 – Brussels Attended by Mr. B. Piliczewski – preparation for the review	Preparations for the review went well – all partners happy with progress
2 nd Annual Review	19 th February 2002 – EU offices, Brussels	Successful Review – project and deliverables to date accepted, with some comments.
Meetings Planned:		
WP8 Kick Off Meeting	March/April – Cedre's offices in Brest, France	To discuss the last work package, and schedule of work
Final Project Status Meeting	July - Brussels	To make final preparations for the final review
2 nd Annual Review	23 rd July 2002 – EU offices, Brussels	Final Review by EU

4 - Dissemination / Promotional Information**4.1 Conferences and/or Workshops attended/organised/foreseen by the project**

<i>Date</i>	<i>Title</i>	<i>Number of persons attended + other information</i>
20-22 May 2001, Kołobrzeg, Poland	The 6th International Conference on the Marine Safety and Protection of the Marine Environment	W. Krzyminski and B. Piliczewski will attend the Conference and will present paper entitled: "The support of the marine emergency actions by the Internet Data Broker System"

4.2 Articles Published , Press coverage, development web sites, etc.

<i>Date and Type</i>	<i>Details</i>

5 – Main results

<i>Description</i>	<i>Details</i>
Broker Prototype	Complete and ready for deployment
MO GRIB RDAE	Complete and ready for testing
BMT prototype Application	Beta version complete – testing and small refinements required
IMGW-OM prototype Application	Beta version of the application was developed by subcontractor to IMGW-OM Prototype version of the visualisation module was developed by IMGW-OM to be integrated within the application for the end-user

6 - Reporting per partner and per workpackage

Partner name: BMT (CO 1)

WP 1: Project Management

Activities:

- Management of partners effort and cooperation in the delivery of required documents.
- Preparation and delivery of project reports and deliverables
- Preparation and delivery of Consortium Amendment documentation
- Preparation and delivery of MO /BMT budget re-allocation request
- Preparation for project meetings
- General Administration

WP 4: Data Broker Interfacing and Communications

Activities:

- Assistance with the development of Broker Interface Component.
- Integration of components with the Broker Interface Component.

WP 6: Data Broker Prototyping

Activities:

- Refinement of core components (DAE and RDAE, Search and Extraction Routines, Products Catalog, Data Warehouse Database)
- Integration of core components
- Design of Web site begun
- Assistance to MO in their development work
- Documentation of designs
- Compilation of test datasets
- Commencement of Test Plan

WP7: Data Broker Application Prototyping

Activities:

- Refinement of concept design of on-line application
- Continued development of application.

WP8: Performance Assessment and Exploitation Evaluation

Activities:

- Initiation and draft of working exploitation plan

Partner name: TXT (CR 2)

WP 1: Project Management

Activities:

- Various integration meeting required
- Project Review preparation and attendance

WP6: Data Broker Prototyping

Activities:

- Integration of the Data Access Engine completed
- Final Broker prototype released
- Bugs fixing
- Web Site on line scheduled by April 2002

WP7: Data Broker Application Prototyping

Activities:

- BMT and IMGW application integration support

WP8: Performance Assessment and Exploitation Evaluation**Activities:**

- Business Plan preparation support
- Testing activities preparation

Partner name: CEDRE (CR 3)

WP1 – project management**Activities :**

- Participation to Project management decisions and progress reporting
- Participation at the Annual Review

WP 4 – Data Broker Interfacing and Communications**Activities :**

- Follow up of actions undertaken by project partners in charge.
- Preparation and search of realistic datasets (from Polmar Plan) for the future implementation and testing of data despatch systems.
- Preparation to Brest meeting in France

WP 6 - Data broker prototyping**Activities :**

- Preparation of the testing plan (DAE) (Investigate our web server arrangement)
- Key-words translation.
- Improvement of prototype French “Polmar Plan” data sets and expectancy of other partners comments.
- Preparation to Brest meeting in France

WP 7 – Data Broker Applications Prototyping**Activities :**

- Follow up of actions undertaken by project partners in charge.
- Preparation to Brest meeting in France
- Beginning of the key-words translation.
- Improvement of prototype French “Polmar Plan” data sets and expectancy of other partners comments.

Partner name: MO (CR 4)

WP1: Project management**Activities:**

- Managed WP developments.
- Attended EU review meeting in Brussels.

WP3: Data Management

- Additional task identified for this package to provide machinable definitions of world sea areas for data searches. Desk research carried out to identify potential sources of this information.

WP4: Data broker interfacing**Activities:**

- Completion of software development to allow interfacing with Mermaid prototype and GRIB subset data extraction.

WP8: Performance assessment and exploitation evaluation

Activities:

- Coordination of effort within MO to provide input into the Mermaid Business Plan.

Partner name: IMGW-OM (CR 5)

WP 1

Activities:

- Management of the activities in frame of WP7
- Reporting
- Preparation to the Project status and annual review meetings
- Participation in the Project status and annual review meetings

WP 6

Activities:

- Cooperation in frame of the Data Broker Components development related to the application to be developed in frame of WP 7
- Development of the Polish dictionary for the Broker

WP7

Activities:

- Testing the application in conjunction with Data Broker engine.
- Development and implementation of the final version of the module responsible for data visualization using commercially available software, i.e.: SURFER of Golden Software
- Development of the conversion program necessary to prepare IMGW-OM data to work with Data Broker
- Preparation of the sample data files

Subcontractor:

- Development of the final version of the application.

Partner name: NC (CR 7)

No activities were scheduled for this reporting period

6 – Project Effort

Effort for the reporting period (person-hours)											
<small>(preferably presented as an Excel sheet either per partner or per person)</small>											
Contractor designation	Acronym	WP 01	WP 02	WP 03	WP 04	WP 05	WP 06	WP 07	WP 08	WP 09	Total
CO1	BMT	149	-	-	-	-	408	391	516.25	-	1464.25
CR2	TXT	33.6	-	-	-	-	712.6	112	112	-	970.2
CR3	CEDRE	-	-	-	70	-	58	30	-	-	158
CR4	MO	193	-	40	210	-	-	-	100	-	543
CR5	IMGW (BMT-MC)*	24		-	-	-	40	200 80	-	-	264 80
CR7	NC	-	-	-	-	-	-	-	-	-	-
Total		274	-	-	271	-	1044	1031	83	10	2713

* The BMT-MC are being sub-contracted by the IMGW for work on this workpackage.

Cumulative Effort to-date (person-hours)

(preferably presented as an Excel sheet either per partner or per person)

Contractor designation	Acronym	WP 01		WP 02		WP 03		WP 04		WP 05		WP 06		WP 07		WP 08		WP 09		Total	
		P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	BMT	756	1186	1120	1813	2009	2143	900	913	280	303	980	1583	840	1379	210	301	140	363	7235	9982.5
CR2	TXT	252	266	1120	1232	1540	1540	600	854	1820	2086	1960	2199	280	420	210	112	140	140	7922	8848
CR3	CEDRE	126	116	280	128	0	32	240	238	280	114	280	155	140	35	210	0	0	57	1556	875
CR4	MO	126	539	1260	223	560	594.5	360	369	560	75	595	126	-	-	126	130	70	17	3657	2073
CR5	IMGW (BMT-MC)*	126	176	420	284	280	294	240	260	140	105	455	382	1400	988	84	0	0	152	3145	2641
														840	920						840
CR7	NC	126	29	280	76	-	-	-	-	-	-	0	-	140	0	210	0	0	5	756	110
Total		1512	2311	4480	3756	4389	4603.5	2340	2634	3080	2683	4270	4444	2800	2822	1050	543	350	734	24271	24530

NB. The unit of person-hours has been used, with 1 month = 140 hours. The number of productive hours per month in fact varies between partners from 132 to 140 hours.

Estimates for effort planned have been calculated as a linear average per month over the entire workpackage duration. Please note that there were some errors in the figures in previous reports, which have been amended in this report.

* The BMT-MC are being sub-contracted by the IMGW-OM for work on this workpackage. These hours are not included in the overall totals, as it falls into the 'Sub-contracting' category, rather than the Personnel category.