# DI2.4: PROMISE Dissemination Report

**Written by:**
**Lutz Rabe, BIBA**

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| **ABSTRACT:** | This deliverable describes the PROMISE dissemination activities of the project period M24 to M30 including the planned activities. |

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# 1 Introduction

In this report the dissemination activities of the PROMISE project will be presented from project month 24 up to project month 30. This includes publications and presentations for scientific conferences and journals and publications, which are foreseen for presentation and publication.

# 2 Publications and presentations

## 2.1 Industrial Journals

| Author | Title | Forum |
|---|---|---|
| Do, H.-H. Anke, J. Hackenbroich, G. | Giving Products a Life of its Own, | SAP INFO Online, http://www.sap.info/int/go/32290/ |
| Cao, H., Folan, P., Mascolo, J., Francone, N., Browne, J., | RFID in product lifecycle management: a case in the automotive industry. | Submitted to International Journal of Computer Integrated Manufacturing |

## 2.2 Research reports

| Author | Title | Forum |
|---|---|---|
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## 2.3 Journal papers and conference proceedings

| Author | Title | Forum |
|---|---|---|
| Anke, J. Wolf, B. Neugebauer, M. Eisenreich, K. Do, H.-H. Hackenbroich, G. | A Middleware for Real-world Aware PLM Applications | 15. ITG/GI-Fachtagung Kommunikation in Verteilten Systemen (KiVS07), 26 Februar-2 March 2007, Bern, Switzerland. |
| Klein, A. Do, H.-H. Hackenbroich, G. Lehner, W. | Representing Data Quality for Streaming and Static Data | 2. AIMS Workshop, 20 April 2007, Istanbul |
| Leonardo Weiss F Chaves, Jürgen Anke, Luciana Moreira sa de Souza, Jens Müller.. | Service Lifecycle Management Infrastructure for Smart Items | 1st International Workshop on Middleware for Sensor Networks (MidSens'06), 28 November 2006, Melbourne, Australia. |
| Jürgen Anke, Christian Sell | Seamless Integration of Distributed OSGi Bundles into Enterprise Processes using BPEL | 15. ITG/GI-Fachtagung Kommunikation in Verteilten Systemen (KiVS'07), 26 Februar-2 March 2007, Bern, Switzerland. |
| Bufardi, A.; Edler, A.; Frey, M.; Metin, A.; Kiritsis, D.; Smith, B. | Improving Product Development by Design-for-X (DfX) Support | 17th CIRP STC Design Seminar "The Future of Product Development", 26-28 March, Berlin, Germany. |
| Hong-Bae Jun, Dimitris Kiritsis, Mario Gambera, and Paul Xirouchakis | Predictive Algorithm to Determine the Suitable Time to Change Automotive Engine Oil | Computers and Industrial Engineering, vol. 51, pp. 671-683, 2006 |
| Hong-Bae Jun, | A predictive algorithm for | International Journal of Industrial |

| Author | Title | Forum |
|---|---|---|
| Fabrizio Lo Conte, Dimitris Kiritsis, and Paul Xirouchakis | estimating the quality of vehicle engine oil | Engineering, 2007 |
| Hong-Bae Jun, Mathieu Cusin, Dimitris Kiritsis, and Paul Xirouchakis | A multi-objective evolutionary algorithm for EOL product recovery optimization: Turbocharger case study | International Journal of Production Research, 2007 |
| Hong-Bae Jun, Jong-Ho Shin, Dimitris Kiritsis, and Paul Xirouchakis, | System Architecture for Closed-loop Product Lifecycle Management | International Journal of Computer Integrated Manufacturing: Integrated Design of Product and Manufacturing Process |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Research issues in closed-loop PLM | Computers in Industry, 2007 |
| Hong-Bae Jun, Jong-Ho Shin, Youngseok Kim, Dimitris Kiritsis, and Paul Xirouchakis | RFID applications in PLM | International Journal of Computer Integrated Manufacturing, 2007 |
| Hong-Bae Jun, Jong-Ho Shin, Dimitris Kiritsis, and Paul Xirouchakis | System architecture for closed-loop PLM | Information Control Problems in Manufacturing 2006, A proceedings volume 1 from the 12th IFAC International Symposium, May 17-May 19 |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Product lifecycle modeling with RDF | Proceedings of International Conference on Product Lifecycle Management (ICPLM' 05), IUT Lumiere-Lumiere University of Lyon, France, 11-13 July 2005. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Research issues on Closed Loop PLM: PROMISE approach | Proceeding of the 18th International Conference on Production Research, July 31-August 4, Fisciano, Italia, 2005. |
| Dimitris Kiritsis, Hong-Bae Jun, Ahmed Bufardi, Dimitra Pli, Maria Anastasiou and Paul Xirouchakis | Engineering asset management using product embedded information device (PEID): PROMISE approach with application to telecom assets | Proceedings of the 1st world congress on engineering asset management (WCEAM), 11-14 July, Gold coast, Australia, 2006, Springer-verlag London ltd, |
| Hong-Bae Jun, Maurice Ruibal, Dimitris Kiritsis, and Paul Xirouchakis | Streamlining Asset Maintenance throughout Analysis of its Usage Data, | Proceedings of Advanced Production Management Systems Conference 2006 of the IFIP working group 5.7, September, 18-20, 2006, Wroclaw, Poland, pp. 93-98. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul | A primitive ontology model for product lifecycle meta data in the closed-loop PLM | Proceedings of 2007 I-ESA Interoperability for enterprise software and applications, March, 28-29, 2007, |

| Author | Title | Forum |
|---|---|---|
| Xirouchakis | | Funchal, Portugal. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Product usage information modelling in a ubiquitous environment | Proceedings of the 4th EU RFID Academic Convocation, 14th March, 2007. |
| Cao, H., Folan, P., Lu, Z., Mascolo, J., Francone, N. and Browne, J. | Design of an End-of-Life Decision Support System using Product Embedded Information Device Technology | Proceedings of the 12th International Conference on Concurrent Enterprising, 2006. |
| Bufardi, A., Folan, P., Kiritsis, D., Xirouchakis, P. | Transformation of product field data into knowledge. | Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing, Saint-Etienne, France, 17-19 May, pp. 241-246 (2006). |
| Zheng, L. Cao, H. Folan, P. Potter, D. Browne, J. | RFID-based information management in the automotive plastic recycling industry | Proceedings of the 3rd International ICSC Symposium (ITEE 2007) on Information Technologies in Environmental Engineering, Oldenburg, Germany, March 29-30, pp. 397-409. |
| Matta, Andrea; Tomasella, Maurizio; Clerici, Matteo; Sacconi, Silvia | Optimal Reconfiguration Policy to react to Product Changes | International Journal of Production Research |

### 2.4 Presentations

| Author | Title | Forum |
|---|---|---|
| Neugebauer, M. | PROMISE Project | 7. EU-Forschungsrahmenprogramm – Europa auf dem Weg zur Spitze (15. Feb 07, Berlin) |
| Hackenbroich, G. | Enabling the real-world aware business | Keynote at EU RFID-Forum 2007 (March 13, 2007, Brussels) |
| Hackenbroich, G. | Optimizing Business Processes by Automatic Data Acquisition | Keynote at Northern Ireland RFID Conference & Exhibition 2006 (September 13, 2006, Belfast) |
| Edler, A. Frey, M. | Improving Product Development by Design-for-X (DfX) Support | 17th CIRP STC Design Seminar "The Future of Product Development", 26-28 March, Berlin, Germany. |
| David Potter | PROMISE Architecture Overview | Cambridge RFID Workshop 12-04-2007 |
| David Potter | PROMISE Architecture Overview | PROMISE IRG Meeting Berlin 24-04-2007 |
| Kiritsis, Dimitris | PROMISE project | EU RFID FORUM 2007 |
| Hong-Bae Jun; Dimitris Kiritsis; Paul Xirouchakis | Product usage information modelling in a ubiquitous environment | EU RFID FORUM 2007 |
| Karl A. Hribernik, Martin Schnatmeyer, Andreas Plettner, Klaus-Dieter Thoben | Application of the Electronic Product Code EPC to the Product Lifecycle of Electronic Products | EU RFID FORUM 2007 |
| Ajith Parlikad, Stavroula Theodorou, | Lifecycle information management: Key Challenges | EU RFID FORUM 2007 |

| | | |
|---|---|---|
| Duncan McFarlane | | |
| Julien Mascolo | PLM data for improving end-of-life strategies in the automotive sector | ID WORLD 2006, 30/11/2006, Milan |

### 2.5 Foreseen for publication

Currently there are about eleven papers submitted and accepted for the International conference on Product Lifecycle Management (as listed below) which results in two planned sessions for the PROMISE project. Moreover PROMISE partners have submitted articles for publication in the RFID-Book prepared by the CERP-Project which provides a structured overview of RFID use and research in Europe. Articles are based on the papers presented on the EU RFID FORUM 2007 as described in the table above.

| Author | Title | Forum |
|---|---|---|
| ITIA-CNR | Decision Support Systems for Lifecycle management: a cost evaluation approach for maintenance service | Conference on Product Lifecycle Management 2007 |
| EPFL | Design improvement method using product usage data in a closed-loop PLM | Conference on Product Lifecycle Management 2007 |
| EPFL | Tracking and tracing of product lifecycle data in a closed-loop PLM | Conference on Product Lifecycle Management 2007 |
| BIBA/CAT/HUT | Assessment of item specific information management approaches in the area of heavy load vehicles | Conference on Product Lifecycle Management 2007 |
| BIBA/IRIS (Australia) | Integrated Assessment of Recycling Options for Mixed Waste Plastics Fractions | Conference on Product Lifecycle Management 2007 |
| SUT (Australia) | Recycling of Engineering Thermoplastics used for manufacturing of electrical and electronic equipment | Conference on Product Lifecycle Management 2007 |
| BIBA / Indyon | Tracking and Tracing in the End-of-Life Phase of Product Lifecycle Management | Conference on Product Lifecycle Management 2007 |
| Infineon | An approach to Enhance Product Lifecycle Management with Intelligent Sensors | Conference on Product Lifecycle Management 2007 |
| CAM/CRF/CIMRU | Improving automobile parts recovery using product lifecycle information | Conference on Product Lifecycle Management 2007 |
| Polimi | PLM data management: a proposal for a standard | Conference on Product Lifecycle Management 2007 |

#### 2.5.1 Book editions

| Author | Title | Forum |
|---|---|---|
| Jürgen Anke, Bernhard Wolf, | PROMISE: Product Lifecycle Management and Information | Ubiquitous Computing Technology for Real Time Enterprises, Max Mühlhäuser, |

| | | |
|---|---|---|
| Gregor Hackenbroich, Hong-Hai Do, Mario Neugebauer, Anja Klein. | Tracking using Smart Embedded Systems. | Iryna Gurevych (Editors), Idea Group, Hershey, USA, 2007. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Closed-loop PLM, | Advanced Manufacturing. An ICT and Systems perspective, editors M. Taisch, K.-D. Thoben. M. Montorio, publisher Taylor and Francis, 2007. |
| Hong-Bae Jun, Maurice Ruibal, Dimitris Kiritsis, and Paul Xirouchakis, | Streamlining Asset Maintenance throughout Analysis of its Usage Data | Lean Business Systems and Beyond, Springer publisher, 2007 |
| Dimitris Kiritsis, Hong-Bae Jun, and Paul Xirouchakis | Closing product information loops with product embedded information devices: RFID Technology and Applications, Models and Metrics | RFID technology and Applications, Cambridge University Press, in print, 2007. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | Product lifecycle modelling with RDF | Product Lifecycle Management: Emerging solutions and challenges for Global Networked Enterprise, Inderscience enterprise Ltd, 2005. pp. 44-54. |
| Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis | A primitive ontology model for product lifecycle meta data in the closed-loop PLM | Enterprise Interoperability II: New Challenges and Approaches, Springer verlag London Limited, Editors - R.J. Gonçalves, J.P. Müller, K. Mertins, and M. Zelm), pp. 729-740, 2007, ISBN 978-1-84628-857-9.. |

# 3 PROMISE sessions, workshops, national information days

## 3.1 Conference Sessions and workshops

No events performed during the considered period.

## 3.2 Trade fairs and innovation centres

No events performed during the considered period.

## 3.3 Planned PROMISE sessions and workshops

Academic dissemination will continue. There are already two planned sessions at two important international events:

- Two PROMISE Sessions on the International Conference on Product Lifecycle Management, PLM-07 in Milano, Italy (http://www.plm-conference.org/index.php?section=47)

- Joint Session with DYNAMITE on the Second World Congress on Engineering Asset Management and the Fourth International Conference on Condition Monitoring, WCEAM CM 2007 in Harrogate, United Kingdom

# 4 PROMISE websites

Based on different focuses of the project dissemination activities the PROMISE consortium currently operates tree websites. Two of them are providing public content as described in the following.

The PROMISE project started with the website www.promise.no which was originally set up as a common platform to support beside others project dissemination in a broad sense. With an increase of content and pages over the time the concept of this site matured with respect to the demands of the consortium and in particularly the academic audience. Consequently the focus of this site was narrowing down. To also cover the interests of industrial audience the website www.promise-plm.com was set up.

Among other things the www.promise.no website provides an overview on the project publications (deliverables, paper, presentations, etc) and events (see also Figure 1) related to the project such as conferences, information days etc.

**Figure 1: www.promise.no / important events**

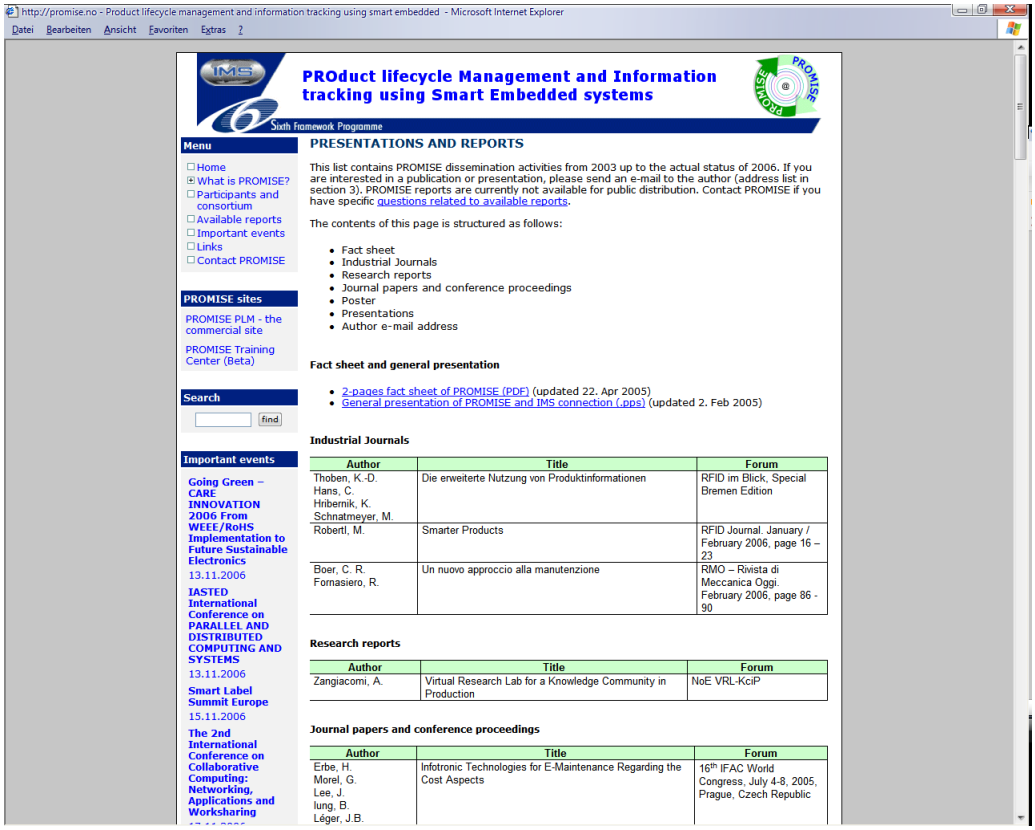


**Figure 2: Figure 1: www.promise.no / publications**

The www.promise-plm.com website concentrates mainly on the dissemination of the exploitation related aspects of the project results. Consequently the focused group of users is different from the group of users mentioned for the www.promise.no site. Among others the practical aspects of the implementation of PROMISE within the project but also without the project are presented (see also Figure 3).

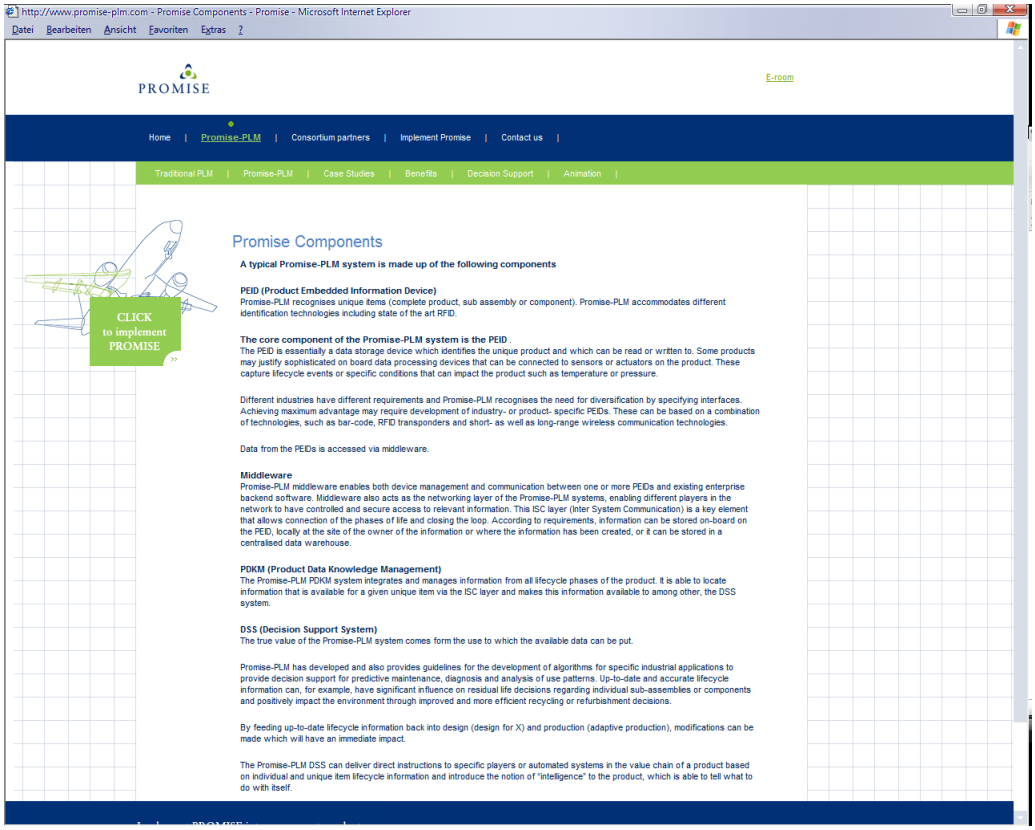


**Figure 3: www.promise-plm / components of the PROMISE system**