

## Projects

### **SAP Purchase Requisition flow optimized with SAP Webdynpro** **12/2016 – 01/2016**

**Task:** Optimize the current process ‘Electronic Purchase Requisition’ of chemical and biochemical products at IMEC with SAP Webdynpro via an existing custom framework.

**Solution:** Optimize user experience by additional messages response, register recurrent use information of material into SAP MRP, disable PR creation for new dummy vendor, register PR with correct unit of measure and register new material with correct unit of measure

**Deliverables:** Implementations, technical documentation and technical tests.

**Client:** IMEC – Leuven (BE) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant

### **SAP webportal for e-commerce** **09/2016 – 11/2016**

**Task:** Retrieve all SAP data in different modules and pushes data to PI where the data is transformed and zipped to a FTP location.

This data is used in the webportal via an external framework.

**Solution:** Develop a SAP ABAP OO class framework via the factory design pattern.

(Products (MM); Order documents (SD); Persons (HR, SD)).

Create import and selector classes for the data retrieval.

Create proxy classes for calling the proxy interface and do PI mappings.

**Deliverables:** Implementations and technical documentation.

**Client:** Floréac – Gent (BE) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant

### **SAP PM CS Maintenance @ Tecteo** **08/2016 - current**

**Project:** Maintenance and changes in the PM CS area

**Location:** Tecteo Serain (BE)

**Role:** SAP PM CS Consultant

### **SAP APO Technical consultant @ InBev** **07/2016 – 12/2016**

**Project:** supply transformation

**Location:** InBev Leuven (BE)

**Role:** ABAP APO consultant

### **SAP PM Quality Assurance and Quality Control dashboard** **02/2016 – 07/2016**

**Task:** The implementation of the Plan-Do-Check-Act circle for corrective and preventive maintenance.

**Solution:** A SAP dashboard with the visual presentation of the PDCA-circle for plant maintenance. The user can list the orders that have to be processed by clicking on one of the PDCA-areas, with the result that the entire PDCA methodology is manageable and transparent so we will enforce continuous improvement and thus eventually reducing the required capacity planners.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** USG Operations BV – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM consultant, SAP project leader

### **SAP Upgrade and rollout @ Aliphos**

**09/2014 – 12/2016**

**Project:** Ecophos merged with Aliphos. Aliphos used to be a Tessendero Chemie brand. We have rolled the Aliphos template (which is the Tessenderlo Chemie template) to the Ecophos plants. Then, we the plant in Bulgaria to the SAP system.

After that, we upgraded from 4.6C to ECC HANA (the biggest upgrade which SAP allows in one step) which involves Unicode conversion, Z code conversion, SPAU, ...

**Location:** Aliphos Louvain la Neuve (BE), Aliphos Vlaardingen (NL) , Alihpos Varna (BG)

**Role:** Logistical lead consultant, technical lead consultant

### **SAP PM CS Maintenance @ Infrac**

**07/2014 – 07/2016**

**Project:** All changes in the PM CS area which are estimated as being less than 20 days. This involves the whole cycle: talking to business to note down the needs, customizing and developing, testing with business and bringing live.

**Location:** Infrac Brussels

**Role:** Logistical and technical PM CS Consultant

### **SAP Management of Change (MoC)–integration with WAI and optimization 12/2015 – 01/2016**

**Task:** To integrate the SAP Management of Change (MoC) application into SAP WAI (Working on Installations) so that mutual hold points are observed regarding to the safety procedures.

**Solution:** For these two processes in SAP we implemented some checks/hold-points so that either one or the other process had to wait until the right conditions were reached in the system.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** USG Operations BV – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, SAP project leader

### **Digital work and safety documents for preventive maintenance items in SAP 12/2015 – 01/2016**

**Task:** When a preventive maintenance plan generates a work order, the task list but also the digital work and safety documents has to be present and ready to be used.

**Solution:** We attached the work and safety documents to the task list (PRT) and a SAP job had to check the generated work orders to make a new version of the original documents. These new versions had to be attached to the work orders so they could be changed depending on the current environment/circumstances (without changing the original documents).

Additionally, we created a button to copy the work clearance document and the work permit because these WCM objects can't be linked to task lists of preventive maintenance items.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, SAP project leader

### **SAP work permits in different languages**

**09/2015 – 11/2015**

**Task:** The possibility to print out an approved work permit in one of the following languages: Dutch, English, German and French.

**Solution:** We created tables with all the translations and a language selection field so that the responsible person can choose a language before printing the approved work permits for the foreign contractors.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM consultant, SAP project leader

### **Interface between the Pipe Management System (PMS) and SAP**

**07/2015 – 08/2015**

**Task:** An interface between SAP and the pipe management system so that all the relevant information will be synchronized within the two systems.

**Oplossing:** We created a SAP database connection (DBCO) so that the SAP interface (ABAP) could directly read and change the PMS database. All changes in either system will be chronologically processed. Additionally we implemented a program to import Equipments from SAP to the PMS database.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ] / Logis Consult Ltd

**Role:** senior SAP development consultant, senior SAP PM consultant, SAP project leader

### **Maintenance budget control in SAP**

**07/2015 – 08/2015**

**Task:** Real-time maintenance budget control in SAP, including the budget supplements

**Solution:** Implementation of a system to control the authorized maintenance budget for work orders. The system copes with initial budget and budget supplements, taking into account the budget tolerances and the authorization levels.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM consultant, SAP project leader

### **Management of Change (MOC) in SAP**

**01/2015 – 06/2015**

**Task:** To integrate the process “Management of Change (MoC)” into SAP: the processing of a change proposal has to be efficiently integrated into SAP including digital attachments, digital signatures and a recognizable layout that also have to be printed. The legacy change proposals has to be available in the new system so that all the history could be consulted.

**Solution:** An user friendly screen with a recognizable layout. The data is saved in the standard fields of SAP notifications using the standard fields, tasks, activities, etc.. The tasks within the notifications are used as digital signatures and the attachments are stored in SAP DSM.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, project leader

### **Work permits in SAP**

**05/2014 – 12/2014**

**Task:** The work permit and the procedures has to be integrated efficiently in SAP.

**Solution:** We implemented a SAP screen-enhancement into the SAP WCM application wherein the complete procedure could be managed and controlled. The approved work permit can also be printed into a layout that was approved by the site regulations. The work permit is linked to the PM work order so that this order is blocked for execution as long as the work permit is not approved.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, project leader

### **SAP Roll out and improvements @ Inbev**

**12/2010 –**

**07/2014**

**Project:** InBev rolls out SAP to Belgium, Luxemburg, the Netherlands, Germany, UK, Ukraine

**Location:** InBev offices and breweries in Leuven (BE), Lille (FR), Bremen (DE), München (DE), Issum (DE), Hannover (DE), Kiev (UA), Luton (UK), Magor (UK), Samsbury (UK)

**Role:** Consultant PM, MM/SRM and ABAP

### **Instructions and E-learnings in SAP DMS, attached to PM technical objects**

**03/2014 –**

**04/2014**

**Task:** Instructions and E-learnings has to be managed and provided to the employees

**Solution:** Instructions and E-learnings for the employees were integrated in SAP Document Management System (DMS) and managed with a certain procedure. After a certain period all the instructions and E-learnings will be sent automatically to the responsible person for an review. These instructions were attached to equipments and functional locations and there is a screen provided where the user can click on an installation and then a list of all the relevant instructions/e-learnings pops up.

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, project leader

## SAP PM shop papers

05/2014 – 05/2014

**Task:** providing new PM shop papers

**Solution:** programming SAP smartforms for PM shop papers: Order, Checklist and interval list

**Deliverables:** Functional and technical specifications, smartforms

**Client:** AB Inbev - Bremen (DE)

**Role:** senior SAP development consultant, senior SAP PM consultant

## SAP MM PM projects @ Tessenderlo

03/2008 -

02/2014

**Project:** Roll out the Tessenderlo template to Nienburg and Treforst and implementing changes in the plants in Belgium

**Location:** Tessenderlo Group plants in Tessenderlo (BE) Ham (BE) Nienburg (DE) Treforest (UK)

**Role:** Consultant MM and PM

## Working on Installations (Fase 2): optimization of preparation and execution 01/2014 – 12/2014

**Task:** optimization of SAP PM/MM with focus on digital work and safety documents, efficient execution, technical feedback and transparency.

**Solution:** Digital work and safety documents (SAP DMS) were attached within a user friendly document list overview attached to the work order. With this overview the responsible person can apply for certain document types. All the applied documents are visible for everyone and are everywhere digital available. Incomplete applied documents will block the execution of work orders in order to ensure the safety of the workers. During the execution of the work order, the supervisors can mark certain operations as complete and automatically the external services and internal hours will be booked. All the responsible persons can provide a digital signature for the identified hold points. The progress of the work order and the identified hold points can be monitored real-time in SAP.

- Total SAP PM/WCM configuration according to the maintenance processes and safety rules.
- Interface/user-screen for digital work order dossier : application and completion of necessary documents (SAP DMS linked to SAP PM work order)
- Structuring the task list with hold points, specific work centers and planning parameters to improve the standard SAP capacity planning method and to use a central work progress report.
- Digital signatures for transferring responsibilities
- Integration of SAP WCM to control the physical blocking and tagging of technical objects
- Interface/user-screen for one-click time and service confirmations which starts the confirmation process in the background.
- Interface/user-screen with an overview of the maintenance process and corresponding work lists.
- MS Excel automatically filled with Critical process indicators using SAP OLE.
- MS project automatically filled with the actual maintenance planning using SAP OLE

**Deliverables:** Functional and technical specifications, business processes, implementation (customizing SAP PM / MM / PS / DMS / WCM , reports, procedures, forms), instructions, workshops, test plans.

**Client:** EdeA – Geleen (NL) [SAP ECC 6.0 ]

**Role:** senior SAP development consultant, senior SAP PM/DMS consultant, project leader

**Working on installations: optimization SAP (PM/MM/DMS/WCM) 03/2008 – present**

**Task:** Optimization of SAP PM/MM in accordance to the business processes. Transforming the current administrative SAP system into a managing SAP system.

**Solution:** The analysis of the collaboration between manufacturing and maintenance on the basis of transferring responsibilities in accordance with the planning and safety issues. The optimization of SAP PM/MM in accordance to business processes (preventive maintenance, corrective maintenance, Turn Arounds en modifications), the actual issues and the posed objectives. (work requests, work preparation, work budgeting, planning and scheduling, execution, quantitative/qualitative control of workmanship and work confirmation, etc.).

**Deliverables:** Functional and technical specifications, business processes, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**SAP Shift notes & shift report 09/2009 – 02/2010**

**Task:** Implementation of SAP Shift notes & report for the department Manufacturing.

**Solution:** A structured manner to present all shift notes and all the relevant information to the operators of manufacturing to facilitate the shift transfers so that the risk of accidents are limited to a minimum. The most important component of this project is the presentation layer that has been build around the SAP standard data and functionality, so that the operators of manufacturing immediately get a clear picture of the status of their installations.

**Deliverables:** Functional and technical specifications, business processes, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**Environment,Health & Safety-Industrial Hygiene & Safety 03/2008 – 11/2008**

**Task:** Implementation of SAP EHS-IHS for the department safety and quality.

**Solution:** Implementing SAP EHS-IHS to register incidents, accidents and safety measurements.

**Deliverables:** Functional and technical specifications, business processes.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**PDMCalc interface in accordance to contracts in SAP 06/2007 – 12/2007**

**Task:** To expunge all Financial data within the application PDMCalc and manage this data only within SAP.

**Solution:** Work centers (resources) and contracts, with all the rates, were created and structured in SAP. The interface between SAP and PDMCalc is adapted too.

**Deliverables:** Functional and technical specifications, business processes, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**SAP release change: SAP 4.7 Enterprise → SAP ECC 6.0 07/2007 – 03/2008**

**Task:** Support for the SAP release change: SAP 4.7 Enterprise → SAP ECC 6.0. The project team consisted of 4 persons!

**Solution:** : Testing and adapting all functionality that is used for SAP PM, MM and all the client specific programs (ABAP). Instructions and support for the users within this new SAP environment. This project was supported through the SAP Solution Manager in accordance with the ASAP roadmap.

**Deliverables:** SAP ECC 6.0 environments (development, test and production).

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant.

## **Maintenance budgeting**

**03/2007 – 04/2007**

**Task:** improvement and management of maintenance budgeting.

**Solution:** The release of PM work orders depends on the responsible persons by granting the specific SAP permit. These SAP permits are generated automatically according to the planned costs of the work order. Also additional checks for: confirmations on working hours and changes on planning costs after budget releases.

**Deliverables:** Functional and technical specifications, business processes, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

## **SAP Pressure Equipment Management System (SAP PEMS)**

**10/2005 – 04/2007**

**Task:** The integration and conversion of the application HERA PEMS to SAP considering the achievement of the IVG certificate (an embedded inspection department).

**Solution:** First the business processes and procedures were tuned to the law (WESAS: Wet Specifieke Accreditatie Schema). After accreditation by the specific agency (AKI: Aangewezen KeuringsInstelling ), these processes and procedures were translated into the SAP system (90% standard SAP functionality). Subsequently all the data were converted from the old system into SAP through LSMW techniques. Finally the acceptance and accreditation of the SAP system as a 'pressure equipment management system' is realized through intensive instructions and support. This SAP pressure equipment management system of EdeA is accepted on the 17<sup>th</sup> July of 2006 in accordance to the legislation and rules (Warenwetbesluit drukapparatuur, Uitvoeringsregeling Besluit Drukapparatuur en WESAS versie 02 d.d. 06-07-2006).

**Deliverables:** Functional and technical specifications, business processes, implementation and client specific programs, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

## **PDMCalc interface**

**04/2004 – 09/2005**

**Task:** An efficient interface between PDMCalc and SAP to calculate the task lists of PM work orders on the basis of CDO norms.

**Solution:** Three-phased execution:

- Analysis and proof of concept. 04/2004 – 10/2004  
The results of the analysis and the accompanying solution are applied on 3 Turn Arouns (TA 400 with 131 work breakdown points, TA 401 with 162 work breakdown points and TA 402 with 187 work breakdown points). All work breakdown points are calculated with PDMCalc and these calculations are subsequently imported in SAP through batch-input techniques in accordance with the postulated solution.
- Open and released PM work orders. 10/2004 – 05/2005  
The development of the interface between SAP and PDMCalc, after acceptance of the overall concept. This interface summarizes the calculation lines of PDMCalc into the task list of the SAP work orders. Subsequently this interface is tested successfully on Turn Around TA 405 with 160 work breakdown points.
- Routings. 05/2005 – 09/2005  
Finally, the interface is adopted to calculate routings and preventive maintenance plans through PDMCalc. Subsequently this adopted interface is tested successfully on Turn Arouns TA 404 with 129 work breakdown points and TA403 with 716 work breakdown points.

**Deliverables:** Functional en technical specifications, business processes, implementation and programming the interfaces, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance), DMC (DSM Manufacturing Center)

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**Technical objects based on KKS.****12/2004 – 04/2005**

**Task:** To organize and code all technical objects in SAP based on KKS (Kraftwerks-Kennzeichen-System)

**Solution:** Realization of the Plant Breakdown Structure based on KKS.

**Deliverables:** Plant Breakdown Structure based on KKS.

**Client:** EdeA

**Role:** senior SAP development consultant, senior SAP PM consultant.

**SAP release change: SAP 3.1i → SAP 4.7 Enterprise****07/2004 – 12/2004**

**Task:** Support for the SAP release change: SAP 3.1i → SAP 4.7 Enterprise.

**Solution:** Testing and adapting all functionality that is used for SAP PM, MM and all the client specific programs (ABAP). Instructions and support for the users within this new SAP environment.

**Deliverables:** SAP 4.7 Enterprise environments (development, test and production).

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant

**Combinet (combination of several permits through intranet)****02/2004 – 11/2004**

**Task:** To optimize the procedure for combined work permits (combination of 3 work permits) through intranet.

**Solution:** An intranet application for permits linked to SAP PM with digital signatures. A specific SAP interface (exclusive change rights for the permits and communication through ftp) as a result of which the permits are automatically filled for 80% with the SAP PM work order as source.

**Deliverables:** Functional and technical specifications, business processes, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, project leader.

**Support SAP administration and SAP business process expert/support 01/2004 – 01/2016**

**Task:** SAP administration and SAP helpdesk support.

**Solution:** Support for the SAP administrator (jobs, authorizations, batch input, LSMW, workflows, ABAP corrections, SAP solution manager, document management system, ...) and support for users within SAP PM, QM, PS, MM, FI, CO, ... (help desk)

**Deliverables:** SAP administration and SAP helpdesk support.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant, SAP application administrator.

**Gatekeeping.****10/2003 – 01/2004**

**Task:** A better work process to ensure that only value-added notifications reach the maintenance organization. (Manufex: manufacturing excellence)

**Solution:** A new work process to ensure that all open notifications are evaluated by the so-called gatekeepers. Only the approved notifications can be transformed to maintenance orders.

**Deliverables:** Functional and technical specifications, work process, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** senior SAP development consultant, senior SAP PM consultant. (unassisted performance)



**Cost calculation for specific selections of preventive maintenance plans. 04/2003**

**Task:** Transform the standard cost calculation for preventive maintenance plans which shows the total costs of the selection, to a cost calculation which shows the total cost within preventive maintenance plans of the selection.

**Solution:** Program and instructions.

**Deliverables:** Functional and technical specifications, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** ABAP programmer, SAP PM consultant.

**SAP-related work permits (pdf). 09/2002 – 03/2003**

**Task:** Automation of work permits (combination of 3 work permits) with an interface to SAP PM in order to guarantee the security measurements for specific maintenance activities on-site. A substantial improvement of the efficiency concerning information flows and approvals.

**Solution:** The work permits are computerized through pdf-forms including several digital signatures. These work permits can only be created through SAP plant maintenance orders (user-exit).

**Deliverables:** Functional and technical specifications, work process, implementation, instructions, workshops, test plans.

**Client:** EdeA (Essent DSM Energy Alliance).

**Role:** pdf programmer, ABAP programmer, SAP PM consultant.

**SAP Queries. 07/2002 – 08/2002**

**Task:** Development of SAP queries and taking care of the courses ‘SAP Quickviewer’ and ‘SAP query’.

**Solution:** Self-study of ‘SAP Quickviewer’ and ‘SAP Query’. Development of SAP queries.

Development of company specific course ‘SAP Quickviewer’ and ‘SAP Query’ and related workshops for the employees.

**Deliverables:** Implementation, instructions, workshops.

**Client:** Ministry of the Brussels-Capital region.

**Role:** ABAP programmer, SAP junior consultant

**ABAP programs for TV-shopping. 11/2002 – 03/2002**

**Task:** Development of interface between SAP and Siebel.

**Solution:** development of MM-related programs.

**Deliverables:** specific programs.

**Client:** VTS studio’s Londerzeel

**Role:** ABAP programmer, SAP junior consultant