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Sights on the process industry – Mitsubishi Electric and ProLeiT in cooperation

Münzing Chemicals Heilbronn – system changeover from PCS 7 to Plant iT

Plant iT – training system for self study qualification

Plant-wide Batch Traceability at Humana GmbH in Herford, Germany

Dairy project in Kuban

ProLeiT

Completion of the KWS Saat AG project – Beet Mobil

Introduction to ProLeiT B.V. the Netherlands

GEA Group takes over Huppmann

News from home – new responsibilities



Sights on the process industry – Mitsubishi Electric and ProLeiT in cooperation

www.mitsubishielectric.de

ment of system solutions for the process industry based on the Mitsubishi Electric Melsec System Q modular controller and the ProLeiT AG Plant iT process control system. The focus thereby is on process applications for the food and beverage industries.

Over the last three years, Mitsubishi Electric has intensively developed its Melsec System Q automation platform for process applications. Now available is a control system that provides the possibility of setting up redundant systems, exchanging components during operations and high flexibility in level concepts by means of a transparent communication system.

Ratingen, Germany, 7 March 2006. Mitsubishi Electric is broadening its activities in the process industry and has announced it is working in cooperation with ProLeiT AG of Herzogenaurach, Germany.

The partnership entails the develop-

ProLeiT is now utilizing this potential for the development of an integration solution in combination with its Plant iT software system. The modular system established for varying process technology applications provides all components for integrated process control technology, production data management and MES solutions.

Both companies agree that this cooperation provides excellent perspectives for future growth. "ProLeiT has a great reputation in its sector for the fields of food and beverages. As a result, we have a partner by our side with whom we have joint access to this important market of the future", emphasized Peter Mischitz, manager of Industrial Automation Germany at Mitsubishi Electric.

ProLeiT sees a classic win-win situation in this cooperation. "Mitsubishi Electric is represented worldwide and as market leader in Asia is an important pathfinder in these new markets". System development of "Plant iT for Mitsubishi" was defined as a short-term aim at ProLeiT. In terms of medium-term and long-term plans, complete projects for Mitsubishi Electric are envisaged, including some in Asia.

System changeover: PCS 7 to Plant iT - migration solely by software exchange

Münzing Chemicals, Heilbronn, Germany

www.munzing-chemie.com



Münzing Chemicals GmbH has its main office in Heilbronn and subsidiaries in Italy, Spain, Belgium and the USA and sup-

plies additives for colorants, adhesives, construction chemistry, leather processing and the paper industry. In 1997 the company began to automate its production in Heilbronn and wanted to upgrade its plants. However, this could not be realized as planned, as this was no longer possible with version 4.0 of the existing PCS 7 system for several reasons: the licence for

the number of variables had already been exceeded and the manufacturer declined to guarantee further secure operation. Further, the installed version could no longer be upgraded and therefore a completely new version was necessary. In addition, the 416 CPUs of the subordinate S7 controllers would have had to be replaced with the 417 type. A further difficulty was that the existing CFC and SFC plans would have had to be entirely recreated.

ProLeiT was an alternative to this that solely as a result of replacing software created the possibility for upgrades, laid the basis for batch functionalities and meant that the entire changeover could be completed after 4-month configuration with just a 7-day downtime at the new year of 2005.

The Plant iT training system is a complete system with Plant iT server, workstation, PLC functionality and all necessary engineering tools.

It is available as VMWare (PC simulation) and includes the Windows 2000 operating system, a database system, a soft PLC and Plant Liqu iT Complete.

The basic operating philosophy and the configuration environment are explained using a configured example.

The interactive-ly accessible and integrated training materials detail the method and inter-play of the individual system compo-

nents in a targeted and practical way and provides recommendations for configuration methods. It displays the step-by-step implementation of a typical application in the beverage industry (filling and emptying of tanks). In this way, it is easy to become familiar with the functions, expressions and tools of Plant Liqu iT in an effective way using a pre-fabricated application example.

The Plant iT training system is not only for beginners, but also suitable for engineers with more experience of process control applications.

It provides all necessary requirements to become familiar with the basic context and functions of a Liqu iT application, both in the office and at the plant and additionally provides an exercise in upgrading the existing configuration of an example application.

Training is particularly valued by those who have visited us and participated in a Plant iT course. This serves as a reference work and a practise environment. Initialization of the VMWare means that the original state can be returned to again and again. The learning units and the training materials also include concluding tasks to check learning success.

The complete training package, pre-installed on DVD, is available now and in both English and German. The only requirements are a standard PC or notebook with Windows XP or Windows 2000 as the operating system, 1 GB RAM and 20 GB of free memory.

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Plant iT

training system for self study qualification

certified by experience

Plant-wide Batch Traceability at Humana GmbH in Herford, Germany



www.humana.de

Herford – Humana GmbH, the baby food specialist based in Herford, has completed the first level of Plant-wide Batch Traceability. Central facilities such as the weighing laboratory (vitamins and trace elements) and liquids processing (base) have been linked via a ProLeiT Batch iT system to the Humana GmbH central database.

On this level, all raw materials used are identified using a unique code (SSCC), which clearly identifies the packaging unit as well as the product. In addition, all manufactured goods and semi-products are included. The SSCC is printed on the packaging units in the form of a bar code and can thus be scanned and checked against a central database in subsequent processes. Documentation of preceding and subsequent items to each SSCC means that seamless batch traceability is possible across all plants located in Herford.

Dairy project in Kuban



www.wbd.com

ProLeiT has achieved impressive successes this year in the dairy industry in Russia. Realization of the “Wim Bill Dann” projects in Moscow’s biggest dairy were followed by the further step of the changeover of the controller in the south Russian dairy combination at Timashevsk. 20 years after installation of the ALERT 5 and ALERT 500 systems, used from receipt of milk to bottling, the plan was realized for the changeover of the existing control systems to the ProLeiT Group as a joint project of ProLeiT AG in Herzogenaurach, Germany and its Russian subsidiary ProLeiT OOO. ProLeiT Plant iT Version 7.0 with four subordinate SIMATIC S7-400 controllers was used.

More than 1400 automatic valves and drives were configured across different production areas. The changeover took place within two weeks by means of a largely parallel work method during running production. Intensive training in Moscow enabled process engineers and electrical engineers to become familiarized with the new system prior to commissioning. The operators were also trained in Russian prior to commissioning of the plant in Timashevsk and on a parallel constructed system. The increase in milk delivery amounts envisaged in the project from 500,000 l to 800,000 l was taken into consideration and achieved without any problem. The next project is already in the planning stage.

Completion of the KWS Saat AG project - BeetMobil



www.kws.de

ProLeiT received the contract for the automation of the Beet Mobil from its customer of many years, KWS Saat AG, one of the leading sugar beet growers. The Beet Mobil is a mobile sugar beet washing laboratory that takes the experimental field harvest to a new development phase. In several European countries, the samples of the experimental planting of sugar beet are prepared directly on the field for evaluation in the laboratory, placed in small containers and frozen at -30° C. The advantage is the avoidance of the costly transport of the sugar beet to a stationary preparation plant.

An industrial process plant is installed on a special truck chassis. The automation scope

covers, for example, hydraulic motors with speed control, load-dependent control of the truck non-load speed, hydraulic and pneumatic valves, automatic process weighing machines, measured value acquisition of temperatures, filling levels, pressures. In other words, it is a mobile high-tech production plant with small space requirements that operates in harsh environmental conditions. For example, the noisy working environment requires that the messages of the process control technology are read to the operator using a headset and electronic speech output. The samples are taken using a special contract and plot management. The acquired quality and process data of the plots is sent with UMTS/GPRS to a central server in Einbeck/Germany. This data connection is also used for the remote access and the support. The plant has been automated with Plant Direct iT V7.10.

certified by experience

ProLeiT AG has been represented by a subsidiary in Enschede, the Netherlands, for over a year.

Cristian Weersink, electrical engineer, is co-owner and manager of ProLeiT NL. The first contact between the native Dutchman and ProLeiT AG came about almost

7 years ago as a result of a joint project with the company Norit Process Technology, where Mr. Weersink previously worked.

Introduction to ProLeiT B.V, the Netherlands

www.proleit.nl



Cristian Weersink, manager of ProLeiT B.V., Netherlands

The decision with Cristian Weersink to found a joint company was made in September 2004 in a discussion with ProLeiT management. This meant that Cristian's long-held dream of independence was fulfilled. ProLeiT B.V. now employs 3 individuals in its offices, whereby 2 to 4 new hires are planned for 2006. Management of the Dutch subsidiary is a high-responsibility task for the young entrepreneur, with constant on-call availability and a high level of work commitment needed. He sees this as a positive stress. Above all, support from ProLeiT AG in commercial matters and assistance in marketing and sales

queries have enormously helped in the first year of business to gain a foothold in the Netherlands.

Cristian is well satisfied with the first year of business but sees his aim of solid establishment in the Dutch market as not yet fulfilled. Especially during this year he is trying to bring market development closer by means of further marketing activities. Access to dairies, food industry and beverage industry in particular are to be additionally forced. For this reason, Cristian Weersink will be personally represented at nearly all ProLeiT trade fairs as the representative of the Dutch subsidiary.

Achema:

15. - 19.05.2006 in Frankfurt/Main, Germany

Brau Beviale:

15. - 17.11.2006 in Nuremberg, Germany

The manager sees his core competence as production data acquisition to MES functionalities, with a particular emphasis on bottling and packaging plants as well as projects relating to batch tracking.

GEA Group takes over Huppmann

www.geagroup.com

Bochum – the GEA Group AG announced its takeover of the Huppmann Group on March 8 2006. This affects the company brewmaxx, which is a joint venture company between ProLeiT and Huppmann.

ProLeiT is not concerned by this. The transaction remains subject to the approval of the cartel authorities. ProLeiT AG has a purchase option on the brewmaxx shares held by Huppmann and is currently considering whether to exercise that option.

News from home – new responsibilities



Dr.-Ing. Martin Lutz, is with effect from February 1 2006 the new manager of the Breweries and Beverages Group at ProLeiT AG in Herzogenaurach.

Dr. Martin Lutz is a graduate of Weihenstephan Technical University and as a brewing engineer is perfectly suited to the task. Having been with ProLeiT since 1998, he has gained relevant experience by means of large projects for Feldschloesschen, Rheinfelden and Grolsch in Enschede.

He succeeds Josef Buchsteiner who is taking over the role of manager of the System Development Group.

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