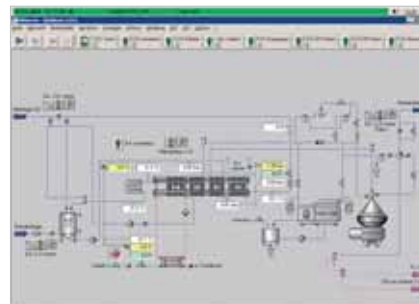


Focus on Technology



Classical process control systems form a homogeneous unit of finely tuned hardware and software components in combination with a very extensive technical integration right down to the field device. They are normally designed for the implementation of capacious and complex solutions, meeting highest standards of safety and availability (e.g. for power plants). Normally, technology-orientated special functions are not available. Because of the system's high safety standard, this can very often only be done by the system suppliers.

Many users in the process industry – e.g. fine chemicals or food and beverage production – need classic process control technology as well as the openness and flexibility of conventional automation solutions at the same time.

This means:

- Parameterizable system functions instead of application-specific individual software
- Adaptability to the characteristics of their own production processes
- Possibility for step-by-step migration of existing automation systems
- Flexibility for extensions and modifications during running operation
- Openness for interfacing with existing automation systems to be retained
- Scalability from a single-station system to a factory-wide integrated solution
- Low total cost of ownership

Some references

Breweries

Aktenbrauerei Kaufbeuren, Kaufbeuren/Germany
Anadolu Efes Biracılık Ve Malt Sanayii, Adana/Turkey
Apatinska Pivara, Apatin/Serbia
Asahi Breweries, Beijing/China
Bavaria, Lieshout/The Netherlands
Beijing Yanjing Brewery, Beijing/China
Berliner-Kindl-Schultheiss-Brauerei, Berlin/Germany
Binding Brauerei, Frankfurt am Main/Germany
Birra Peroni, Bari & Rome/Italy
Brand Bierbrouwerij, Wiljre/The Netherlands
Brauerei Gebr. Meisel, Bayreuth/Germany
Brauerei Reissdorf, Cologne/Germany
Carlsberg Croatia, Koprivnica/Croatia
Carlsberg UK, Northampton/Great Britain
Castlemaine Perkins, Brisbane/Australia
China Resources Breweries, Dongguan/China
Cöliner Hofbräu P. Josef Fröh, Cologne/Germany
Derbes Brewery, Almaty/Kazakhstan
East African Breweries, Nairobi/Kenya
Efes Breweries International, Kazan/Russia
Feldschlösschen Getränke, Rheinfelden/Switzerland
Friesisches Brauhaus zu Jever, Jever/Germany
Griechische Bierbrouwerij Nederland, Enschede/The Netherlands
Guinness Anchor Bernhard, Kuala Lumpur/Malaysia
Industria de bebidas Igarassu, Recife/Brazil
Israel Beer Breweries, Ashkelon/Israel
JSC Baltika Breweries, Chabarovsk & Rostov Don/Russia
JSC Baltika Breweries, Samara & St. Petersburg/Russia
Kingway Brewery Holdings, Dongguan/China
Klosterbrauerei Andechs, Andechs/Germany
Köstritzer Brauerei, Köstritz/Germany
Krostitzer Brauerei, Köstritz/Germany
Meckatzer Löwenbräu Benedikt Weiß, Meckatz/Germany
Neumarkter Lammsbräu, Neumarkt/Germany
Oettinger Brauerei, Oettingen/Germany
Pilsner Urquell, Pilsen/Czech Republic
Privatbrauerei A. Rollnick, Steinfurt/Germany
Privatbrauerei Erdinger Weißbräu, Erding/Germany
Privatbrauerei Härke, Peine/Germany
Privatbrauerei Moritz Fiege, Bochum/Germany
Private Weissbierbrauerei G. Schneider & Sohn, Kelheim/Germany
Radeberger Exportbierbrauerei, Radeberg/Germany
Ringnes, Oslo/Norway
SAB Miller - Doljity Brewery, Bialystok/Poland
SAB Miller - Tyskie Brewery, Tychy/Poland
SAB Miller - Samat, Donetsk/Ukraine
San Miguel - Bada Brewery, Mandaluyong City/Philippines
San Miguel - Corporation Polo Brewery, Polo/Philippines
San Miguel - Pt. Delta Jakarta Tbk, Jakarta/Indonesia
San Miguel - San Fernando Brewery, San Fernando/Philippines
Sierra Nevada Brewing, Chico/USA

Tucher Bräu, Nuremberg-Fürth/Germany
Warsteiner Brauerei, Warstein/Germany
Widmer Brothers Brewing Company, Portland/USA
Yantar Brewery, Nikolajev/Ukraine

Biodiesel & Bioethanole

Bertin, São Paulo/Brazil
Caramuru Alimentos, Itumbiara/Brazil
Envirial, Leopoldov/Slovakia
Granol Indústria Com e Exportação, São Paulo/Brazil
Petróleos de Venezuela, Caracas/Venezuela
Rapsveredelung Vorpommern, Malchin/Germany
Usina Barracool, Barra do Bugres/Brazil

Chemistry

Basell Polyolefine, Wesseling/Germany
BASF Construction Polymers, Glöthe/Germany
Chemson, Newcastle/Great Britain
Clariant, Gersthofen/Germany
Haka Kunz, Waldenbuch/Germany
Henkel Waschmittel, Düsseldorf/Germany
Hilti Germany, Kaufering/Germany
Intervet Germany, Unterschleißheim/Germany
JohnsonDiversey Value Chain, Enschede/The Netherlands
Kiesel Bauchemie, Esslingen/Germany
Münzing Chemie, Heilbronn/Germany
Rohm and Haas Company, Strullendorf/Germany
Schwarzkopf & Henkel Production Europe, Liépvre/France
Schwerk Zement, Mergelstetten & Bernburg/Germany
Thompson-Siegel, Düsseldorf/Germany
Werner & Mertz, Mainz/Germany

Animal Feed

Eric Switzerlander Samen, Thur/Switzerland
Getreidezentrum Busswil, Busswil/Switzerland
Landi Bipp-Gäu, Basel & Egerkingen & Oberbipp/Switzerland
Ligrana, Eilsleben/Germany
Napf Center, Willisau/Switzerland
O. Studer Futtermühle, Rorschach/Switzerland
Oberrühle Boswil, Boswil/Switzerland

Beverages

Bad Dürheimer Mineralbrunnen, Bad Dürheim/Germany
Emig, Walldstadt/Germany
Emsinger Mineral-Heilquellen, Erc-Ersingen/Germany
Hassia Mineralquellen, Bad Vilbel/Germany
Henkell & Söhnelein Sektcellereien, Wiesbaden/Germany
Privatbrunnen Tönsteiner Sprudel, Brohl-Lützing/Germany
Rhein-Main-Sieg Getränke, Bendorf/Germany
Selters Mineralquelle, Löhning-Selters/Germany

Dairy

Danone, Rosenheim/Germany
Friesland Coberco Dairy Foods, Wollega/The Netherlands
Humana, Herford/Germany
Nordmilch, Isernhagen/Germany
OMIRA Oberland-Milchverwertung, Ravensburg/Germany
Sachsenmilch, Leppersdorf/Germany
Truva România Dairies, Popești Leordeni/Romania
Wimm-Bill-Dann, Moscow/Russia
Wimm-Bill-Dann, Timashevsk/Russia

Food

Auer Brot, Graz/Austria
Cognis Germany, Illertissen/Germany
Danone-Lu, Nantes/France
East Balt France, Fleury-Mérogis/France
East Balt Italia, Bomporto/Italy
Glockenbrot Bäckerei, Frankfurt am Main/Germany
Harry's France, Calais & Locomin/France
Jacquet 2000, Clamecy/France
Jowa, Switzerland
Kerry Ingredients, Blendecques/France
Kerry Ingredients, Heiligengrabe/Germany
La Bella Easo, Zaragoza/Spain
Leiber, Bramsche/Germany
Lindt & Sprüngli, Kilchberg/Switzerland
Unilever Germany Holding, Ansbach/Germany

Pharma

Bayer HealthCare, Elberfeld/Germany
Fresenius Kabi, Bad Homburg/Germany
Heraeus Holding, Hanau/Germany
Lichtwiar Healthcare, Berlin/Germany
Merck, Darmstadt/Germany

Further industries

AVEBE Kartoffelstärkefabrik, Lüchow/Germany
ESCO - European Salt Company, Bernburg/Germany
Franz Kaldewei, Ahlen/Germany
KWS Saat, Einbeck/Germany
Silesia Gerhard Hanke, Neuss/Germany
Südwestdeutsche Salzwerke, Heilbronn/Germany

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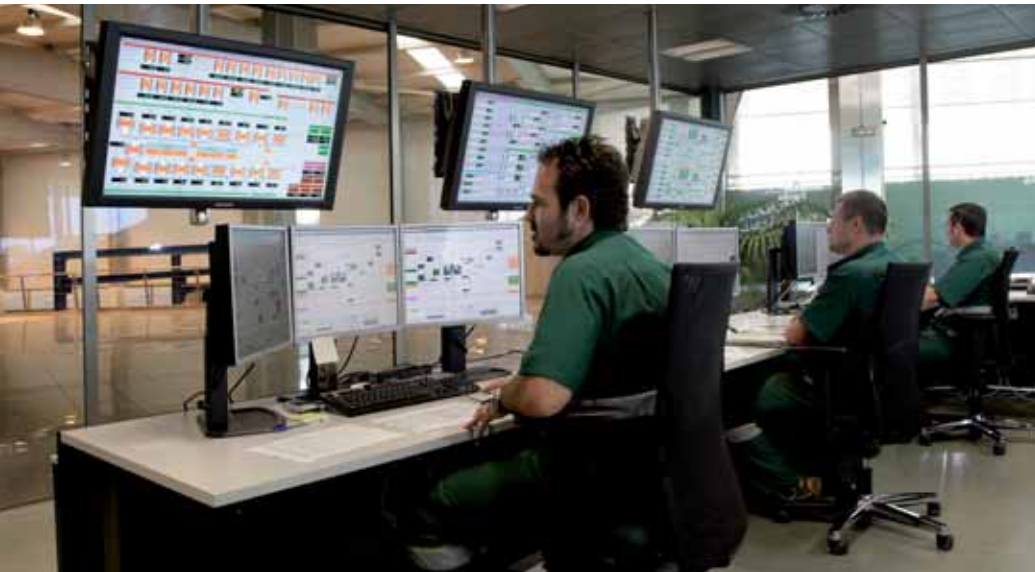
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multi-platform
Process control technology. MES included.

Process control technology available for the world market leaders' hardware platforms



Plant iT. multi-platform

Plant iT is an integrated software platform that is well established in the market. It consists of different components that can be flexibly combined.

The seamless integration of various functions – ranging from automation to process control technology and production data management up to interfacing with super-ordinated ERP systems – allows the implementation of homogeneous solutions even for the most complex tasks. The consistent application of the principle “**Parameterization instead of Programming**” for all system components results in a unique combination of flexibility, transparency, safety and availability that is required particularly by process industries.

The core functionality of *Plant Direct iT* is available for the hardware platforms of the world market leaders:

- **Siemens Simatic S7**
- **Allen-Bradley Logix control platform from Rockwell Automation**
- **Mitsubishi MELSEC System Q**

When implementing process control systems or in case of the migration of automation systems, the controllers of different suppliers can be used simultaneously in a plant.

Unique multi-platform solution

At a glance

Plant iT is a modular system platform for the process industry with a PLC-based process control system as its core component. The client-server of the system in combination with one central database and object-orientated engineering form the base for an almost unlimited scalability from a single station system up to multi-server solutions for complete sites. Graduated redundancy concepts – starting from basic RAID solutions up to failure-tolerant server systems – meet the competing requirements of economic efficiency and safety. The system is field-proven in a large number of applications worldwide.

Plant Direct iT – Process control system

Originally being developed for the food and beverage industry, *Plant Direct iT* now provides a large spectrum of applications for almost all areas of the process industry. It fulfills the requirements for safety and transparency in controlling production processes, but at the same time it provides the maximum of openness for the integration of existing control systems and flexibility for modifications during running operation. With its class concept (technical and technological automation objects with encapsulated functionality) *Plant Direct iT* provides a future-proof basis for solving control and process technological tasks.

Plant Acquis iT – Production data management

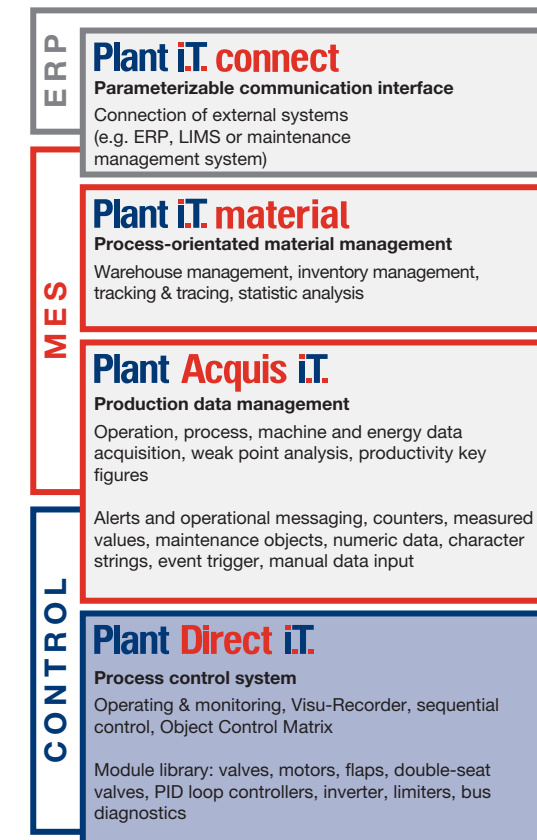
The powerful production data management system can be used stand-alone as well as in combination with *Plant Direct iT*, especially also for hybrid processes, i.e. production dominated by process technology combined with adjoining areas of discrete manufacturing (e.g. filling and packaging plants). Operation, process, machine and energy data acquisition can be done continuously, event-triggered or by manual input. Standardized interfaces on technical (e.g. OPC) and on technological level (Weihenstephan standards for production data acquisition in beverage packaging lines) simplify the automatic data acquisition, but it can also be done in an application-specific way for other kinds of automation systems. Purely time-related but also shift, order or batch related analysis is possible.

Plant iT material – Process-orientated material management

Plant Direct iT as well as *Plant Acquis iT* can be combined with this system component and with it provide important functions for material-related production processes. The recording of all material movements accurate to the single transaction is based on a warehouse structure that is flexibly parameterizable to fit the process. It enables detailed inventory management and – in combination with a super-ordinated order management – *Plant iT material* also provides comprehensive tracking and tracing functionality.

Plant iT connect – The parameterizable communication interface

By using *Plant iT connect* also the engineering of interfaces for data exchange with external IT systems (e.g. ERP, LIMS, inspectors, intelligent analytic devices) becomes parameterizable to a large extent. The interfaces implemented with it provide a detailed online diagnostics also transparent for production-orientated staff.



Plant iT multi-platform system architecture

Added value multi-platform

For the user, the level of acceptance and the value of an installed automation system platform are largely determined by the technical know-how the staff has in handling the installed technical infrastructure. For that reason, very often the existing staff has reservations with regard to changing the system platform. The solution providers are expected to provide a system with the required functionality that uses the existing control hardware at the same time.

Therefore, a process control system with selectable hardware platform offers benefits for both sides:

The operating company

- saves training costs for the technical staff,
- requires lower investment costs for the modification of existing PLC hardware including electrical installation,
- avoids some of the costs that are normally due to limitations in production (modifications, commissioning),
- has a reduced project risk because of higher flexibility in migration strategies and
- can choose the optimal hardware platform customized to requirements.

The supplier

- saves training costs for his staff, because the engineering can mainly be done independent of the hardware platform,
- can build upon the acquired technological know-how of his staff and use it, independent of the hardware platform,
- attains easier access to markets which are dominated by a PLC platform that has not been used yet
- is in a position to compete worldwide since more efficient engineering gives a competitive edge.

