Based on ABB’s IndustrialIT concept

To some extent that insight is a precondition for a technological advance, but it can also be a condition that stops developments and entrepreneurs. The requirement, that industrial automation systems must work together for the benefit of overall production, is the driver for innovation and the basis of a new concept: IndustrialIT. ABB’s approach is to define an open, integrating architecture for corporate automation systems and to implement it in a range of products and services.

IndustrialIT is designed to help companies optimize their production processes and increase their productivity. It starts with the corporate IT infrastructure and extends to every plant and system. The solution is based on an open architecture that allows systems and applications to be easily and cost-effectively adapted to changing needs and market conditions. IndustrialIT is available as a complete solution package or as part of a tailored system.

ABB’s IndustrialIT concept offers solutions to most business processes, from plant design to maintenance, from overall business management to production supervision. It means that it is just as easy to look up whatever you want to know about a sticky valve in the plant as it is to find the production report on the last batch produced yesterday.

For these and other reasons, ABB’s Aspect Object technology is one of the most important elements of the group’s IndustrialIT concept.

Contact your nearest ABB representative to find out more.
Based on ABB’s Industrial IT concept

In an era when digitalization and automation are shaping the future of industry, ABB has developed an innovative solution: Industrial IT. This is an automation solution designed to be an enabler of digitalization, providing a productivity-boosting automation solution with an integrating system architecture.

The essence of our Industrial IT concept is the realization that today’s computer technologies make it possible to integrate all corporate business processes into a single, smoothly working whole. This means controlled access to data in real time across the enterprise and across systems. It also means solutions to all possible industrial activities, from plant design to maintenance, from order processing through production automation to delivery, from overall management to eBusiness.

We believe that it is not necessary to come up with all the solutions ourselves. Starting out with an open, integrating architecture means our solutions fit perfectly with those of others, and the resulting combinations have obvious synergistic qualities.

Another important cornerstone of our vision is the development of a comprehensive portfolio of standard products in both hardware and software. ABB’s Aspect Object technology provides an innovative solution to the perpetual corporate information management problem by organizing information into aspects of the plant and business entities it belongs to and by providing powerful functions for navigation and searching.

ABB’s Aspect Object technology is one of the most important elements of the group’s Industrial IT concept. Contact your nearest ABB representative to find out more.

Industrial IT

a productivity-boosting automation solution with an integrating system architecture

Productivity through integration

We at ABB are proud to present an Industrial IT-based automation and control solution, offering:

- Unrivalled scope
- Providing a vast range of Industrial IT-enabled products and systems, making ABB your one-stop shop for industrial automation.
- Highly scalable
- Therefore being the optimum solution in all situations, from the smallest to the largest applications.
- Open communications
- Thanks to standard systems, commodity components and common fieldbus technologies.
- Efficient engineering
- Through onetime data entry, automated object creation and easy re-use of existing solutions.
- Integrated information
- Featuring a single window to all plant information and an integrating system architecture.

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ABB’s Industrial IT concept offers solutions to most business processes, from plant design to maintenance, from overall business management to production supervisio...
Creating value through integrating automation solutions

The solution consists of:

**Operate**
- Operator interaction hardware and software, providing production supervision and process operations with the information they need from the production process. On a graphical, overview or manual basis. In the field and in the control room.

**Control**
- Automated automation and control systems, offering a full-suite of capabilities. From logic to control loops and beyond. From purpose-built controllers and PC-family to accompanying, high-performance control software, for use both known and hostile environments.

**Engineer**
- Tools for efficient engineering throughout the entire life-cycle of the plant, inclusive engineering for redundant fieldbus, and other powerful utilities.

**Product**
- Batch, a comprehensive recipe management and batch production control software package, offering better quality control and higher output to most batch production facilities.

**Optimize**
- A suite of asset and process optimization software designed to maximize the yield from all productive areas.

**Integrate**
- A suite of runtime components and tools for the integration of existing applications into the IndustrialIT concept. Thereby the IndustrialIT solution consists of runtime components and tools for the integration of existing applications into the IndustrialIT concept. Thereby the IndustrialIT solution consists of:

**Support**
- Spare parts to upgrades and training.

**Networking solutions**
- Includes everything from networking and space parts to explanation and training.

**Networking solutions**
- Based on industry standards, from the field level up. With optional redundancy when required.

**Enterprise Historian, ProduceIT**
- Based on industry standards, from the field level up. With optional redundancy when required.

**InformIT**
- A full suite of asset and process optimization software, designed to maximize the yield from all productive areas.

**EngineerIT**
- A suite of asset-related optimization software designed to maximize the yield from all productive areas.

**EngineerIT**
- A range of support services aimed at ensuring that users get the most out of their IndustrialIT investments. Includes everything from installation and space parts to explanation and training.

**Networking solutions**
- Based on industry standards, from the field level up. With optional redundancy when required.

**EngineerIT**
- A range of support services aimed at ensuring that users get the most out of their IndustrialIT investments. Includes everything from installation and space parts to explanation and training.
Creating value through integrating automation solutions

The solution consists of:

- **Operate**
  - Complete, integrated automation hardware and software, providing production supervision and process operation with the information they need from the field to any level of corporate management. On a regular, event-driven or manual basis. In the field and in the control room.
  - Control automation, maintenance, and contributory, offering a full suite of capabilities from logic to control loops and beyond. From purpose-built controllers and I/O families to accompanying, high-performance control software. To see all levels known and hostile environments.

- **Engineer**
  - A tool for efficient engineering throughout the entire life cycle of the plant. Includes Engineering tools for efficient engineering throughout the entire life cycle of the plant. Includes Engineering tools for efficient engineering throughout the entire life cycle of the plant.

- **Produce**
  - An integrated, often-used, and cost-effective automation package. Offers better quality control and higher output to meet batch production facilities.

- **Optimize**
  - A suite of asset and process optimization software designed to maximize the yield from all production assets.

- **Integrate**
  - A suite of industrial communications and tools for the development of new flexibility. Solution is for the integration of existing applications into the factory. Expand the Industrial IT scope by expanded field applications that improve production automation, user optimization and failure management seamlessly, and in real time.

- **Engineer**
  - A range of support services aimed at ensuring that users get the most out of their Industrial IT investments. Includes everything from installation and space plans to education and training.

- **Networking solutions**
  - Based on industry standards, from the field level up. With optional redundancy where required.
Creating value through integrating automation solutions

The solution consists of:

- **Operate**
  - Operate interacts with hardware and software, providing production supervision and process operations with the information they need from the IndustrialIT concept. Through that, they can optimize the production process. On a regular, event-driven or manual basis. In the field and in the control room.

- **Control**
  - Controlled automation and controls, offering a full suite of capabilities. From logic to control loops and beyond. From purpose-built controllers and I/O families to accompanying high-throughput control software, for use in both known and hostile environments.

- **Engineer**
  - Tool for efficient engineering throughout the entire life cycle of the plant. Includes Engineering, Planning, and Supervision software. Two redundant servers and other powerful utilities.

- **Inform**
  - Inform, offering safe, long-lived, storage and potential network functionality for all kinds of production data, from all reaches of the remote enterprise, integrated seamlessly with Operate® Process Portal for operator interaction.

- **Produce**
  - Produce, a comprehensive recipe management and batch production control software package, offering better quality control and higher output to meet batch production facilities.

- **Optimise**
  - A suite of asset and process optimisation software designed to maximise the yield from all production areas.

- **Integrate**
  - Integrate consists of runtime components and tool for the full development of your IndustrialIT® software, for the integration of existing applications into the IndustrialIT® concept. Uses the IndustrialIT® and expanded, high-throughput control software. That integrates production automation, user optimization and facilities management seamlessly, and in real-time.

- **Engineer**
  - A range of support services aimed at ensuring that users get the most out of their IndustrialIT® investments. Includes everything from orientation and start-up to escalation and learning.

- **Networking solution**
  - Based on industry standards, from the field level up, with optimal redundancy where required.
Based on ABB’s IndustrialIT concept.

The realization that today’s computer technologies make it possible to integrate all corporate business processes into a single, smoothly working whole, that is the essence of our IndustrialIT concept. It means that we are working on providing controlled access to data in real time across the enterprise and across systems. And it means solutions to all possible industrial activities, from plant design to maintenance, from order processing through production automation to delivery, from overall management to eBusiness.

But it does not mean that we have to come up with all the solutions ourselves. No, by starting out with an open, integrating, architecture, our solutions fit perfectly those of others, and the resulting combinations have obvious synergistic qualities.

Another important cornerstone of our vision is the development of a comprehensive portfolio of standard products in both hardware and software. These components can be mixed and matched in almost infinite ways to meet the requirements of individual customers and applications.

For these and other reasons, IndustrialIT is positioned to change fundamentally the ways in which industrial operations are run and goods and services produced.

Incorporating ABB’s patented Aspect Object™ technology

A cornerstone of IndustrialIT is ABB’s Aspect Object technology, which provides an innovative solution to the perpetual corporate information management problem. It does so by organizing information, not into files and folders, but into aspects of the plant and business entities it belongs to and by providing powerful functions for navigation and searching.

Unrivalled scope

Providing a vast range of IndustrialIT-enabled products and systems, making ABB your one-stop shop for industrial automation.

Highly scalable

Therefore being the optimum solution in all situations, from the smallest to the largest applications.

Open communications

Thanks to standard systems, commodity components and common fieldbus technologies.

Efficient engineering

Through onetime data entry, automated object creation and easy reuse of existing solutions.

Integrated information

Featuring a single window to all plant information and an integrating system architecture.

Control Faceplate

Graphics

Report

Trend

Aspects

Aspect

Real Object

ABB’s Aspect Object technology organizes information, not into files and folders, but into aspects of plant and business entities.

Contact your nearest ABB representative to find out more.