

Special Reports**IT Solutions by Collaborative Innovation****IT Solutions from the Customer's Point of View**

YASHIKIDA Hiromi

IT Solutions Contributing to Customers'Sustainable Growth and Prosperity

OISHI Toshiyuki

Toshiba Solutions Corp. was established in October 2003 as a new company undertaking the IT solution services of Toshiba. We are making our best efforts to achieve new levels of customer satisfaction through the integration of marketing, technology, and the development of IT solutions, and offer one-stop service covering every phase from consultation through operation and outsourcing.

"Collaborative innovation" is our basic stance throughout our solution business activities. We work cooperatively with our customers to create packaged solutions rather than custom-made solutions. As we do so, we aim to be the No. 1 solutions partner winning the highest reputation and trust exceeding customers' expectations.

Solutions for Deregulating Power Markets

HIROMOTO Hiroshi / TANAKA Kazunari / NOMURA Mitsuhiro / OBARA Hirotomo

The Japan Electric Power Exchange will start operation in April 2005, and the deregulation of power retailing markets is expanding to include high-voltage consumers of 50 kW or more. The Toshiba Group has developed three solutions for these deregulating power markets. These are an energy trading and risk management solution, a billing solution for power deregulation field, and an energy service solution for any value-added services.

Cross Industry Solutions and Services

KOBAYASHI Yasuhiro

In the current severe business environment, companies are required to modify their business processes and to rebuild the mission-critical cross industry information systems that support them so as to quickly and accurately respond to changes in business conditions and secure profits by maintaining global competitiveness.

Toshiba Solutions Corp. makes full use of the experience accumulated by Toshiba to provide mission-critical cross industry solutions and services that enable our customers to solve their business problems.

ERP Solution for Midsize Enterprises Incorporating SAP R/3® Package

OHNUMA Shoichi / ARIKAWA Yuji

With Japanese midsize enterprises facing a very severe business environment today, the introduction of an enterprise resource planning (ERP) solution is essential for them to solve business problems. Such companies place strong emphasis on the cost performance of the ERP solution to be introduced, and also want a quick return on their investment.

Toshiba Solutions Corp. has released an ERP solution called WorkVision™ for these enterprises.

WorkVision™ incorporates a SAP R/3® ERP package and will fully satisfy the user's ERP needs.

Solutions for Product Traceability in Biotechnology and Genome Era

ARAI Yoji / MINEZAKI Koichi / ISOZAKI Ichiro

Various medical products have been introduced in the fields of medicine and medical instruments making full use of the latest developments in biotechnology and genome science. It is predicted that in the near future, individual medicines will be available based on the human genome that will work only for a particular patient. While the efficacy of such medicines will be highly valued, ensuring their quality and safety from the perspective of human immunodeficiency virus (HIV) infection via blood products will be a major issue. Strengthening safety measures for medicines as they pass into other hands is therefore an important problem.

Japan's present legal framework also needs to be reviewed in terms of approval and permission systems to assure conformity with other countries. Due to a revision of the Pharmaceutical Affairs Law in 2002, all institutions and industries in the medical field in Japan must maintain complete records on when, where, and to whom their products are transferred or administered, with reference to the lot number.

Toshiba Solutions Corp. has introduced newly developed traceability solutions to several advanced enterprises. These solutions satisfy the legal requirements while causing the least possible interference with existing monitoring systems.

Business Impact Management Solution

HANAI Katsuyuki / CHIKURA Daisuke

Toshiba Solutions Corp. has developed a business impact management solution. Business impact management collaborates with existing IT infrastructure management tools to monitor IT system operational status and performance from the standpoint of the impact on the company's business. This solution will help executives to recognize the impact of IT system failure on business and enable them to make faster business decisions.

Feature Articles**Wireless Controller for HVAC**

OKAMOTO Hirotaka / KURIMOTO Takeshi

Radio technology appears on the market in various products. Demand is increasing for the replacement of conventional wired monitoring and control systems for air conditioners and other building facilities by radio networking systems.

Toshiba has developed a wireless controller for heating, ventilation, and air-conditioning (HVAC) systems that makes wiring work unnecessary and allows free installation of the facilities. Their data can be easily sent to a central monitoring system as the communication protocols for upper-level systems conform with that of LonWorks®.

Riskmizer™ Facility Investment Planning Tool

HANDA Keiichi / UCHIHIRA Naoshi

Decision-making in situations of uncertainty has recently become more important with the rapid changes taking place in business environments. For example, in investment planning for iron and steel, chemical, or electric power plants, uncertain elements such as material prices or demand movements must be taken into consideration in order to obtain a robust decision.

Toshiba is developing a facility investment planning tool called Riskmizer™, employing financial engineering and mathematical optimization methods. This tool will enable users to compare and analyze several types of strategies so as to formulate the best strategy and investment plan to meet their needs.

Automatic Software Development with Model Driven Architecture

YANO Rei / OMORI Mari / HOSOYA Ryuichi

Model driven architecture (MDA) is a concept of software development that is centered on analysis and design models. Toshiba Solutions Corp. has developed model-based components (MBCs) and a model compiler that is at the core of MDA, and realized software development based on MDA. By applying MDA to a real system development and comparing the machine-made design with a hand-made design, we have identified the effect of MDA in enabling uniform and automated application of expert knowledge of software design.

Okinawa Naha Airport Doppler Radar for Airport Weather

ISHIZAWA Hiroshi / MUTO Ryuichi

Weather radar today is not simply a radar for rainfall mapping, but a multifunctional tool to answer a variety of customer needs not confined to meteorological purposes.

Toshiba has supplied a Doppler Radar for Airport Weather to Naha Airport in Okinawa as the latest multifunctional weather radar. The major objective of the radar is not only to observe airport weather, but also to detect low-level wind shear near the airport to ensure safe takeoff and landing of aircraft. The features of the radar include enhanced wind-velocity detection capability to observe Okinawa's typhoon-class winds, as well as eco-conscious consideration of the suppression of spurious radiation from the transmitter to realize a product that is gentle to the environment.

Frontiers of Research & Development**Fingerprinting Scheme Preventing Piracy of Movie Contents
All-Fiber Type Optical Current Transformer**