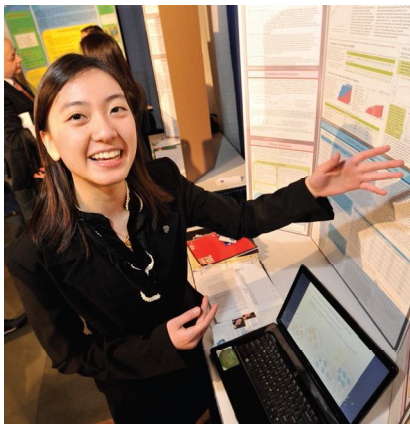


# Enabling a Better Software Solution

Duzon Bizon packages its ERP solution on Intel® Core™ i5 vPro processor platform to improve system performance for its customers



Duzon Bizon Co., Ltd. is a leading Korea-based company engaged in the provision of package software and extended solutions for small-and medium-sized enterprises.

## CHALLENGES

- **Inadequate hardware compromises software performance.** Performance of the company's enterprise resource planning (ERP) solution when installed on customers' hardware is lacking as many customers' existing hardware is old, outdated or not powerful enough.
- **Reduced work efficiency.** Running the ERP solution on low-performing hardware has a negative effect on the customers' work efficiency and needed to be resolved.
- **High maintenance cost.** In the long run, the cost of upgrading outdated hardware is higher than purchasing new hardware.

## SOLUTIONS

- **Complete hardware and software solution.** Offer a complete solution combining the company's ERP solution with a qualified, high-performance-processor-based platform.
- **Intel® Core™ i5 vPro processor.** Utilize a PC platform based on the Intel Core i5 vPro processor as the hardware platform for the company's Duzon\* ERP I-cube solution.

## IMPACT

- **Out-of-the-box solution.** Duzon Bizon can deliver to its customers a solution that works straight out of the box without any performance issues.
- **Fast implementation.** Solution deployment is accelerated as there is no need to investigate, test, and upgrade customers' existing systems to ensure compatibility and performance.
- **Performance guarantee.** Duzon Bizon can guarantee that its ERP solution will work according to specifications, and customers are assured that their expectations will be met.
- **Managed costs.** More economical for customers to acquire an integrated hardware and software solution than to purchase them separately, or to upgrade existing hardware.

## Introduction

As a leading provider of MIS solutions to small and medium-sized enterprises in Korea, Duzon Bizon recognizes that developing a software-based MIS solution for its customers is not enough; it is important also to match the solution with a high-performance hardware platform in order to improve work efficiency while reducing operating costs for its customers. The company conducted benchmark tests of its corporate MIS solution operating on a PC equipped with the latest Intel Core i5 vPro processor and compared it against existing systems. The resulting 34 percent performance improvement convinced Duzon Bizon to integrate Intel Core i5 vPro processor-based systems into its corporate MIS solution as a performance-enhanced system solution for its customers.

## Packaging its ERP software on the Intel® Core™ i5 vPro processor platform enables Duzon Bizon to deliver a high-performance solution that meets its customers' needs



“A platform integrated with the Duzon ERP I-cube system and an Intel® Core™ i5 vPro processor shows a 34 percent performance improvement over existing systems.”

*Yoon Jae-Gu  
Director  
Duzon Bizon Co., Ltd.*

Duzon Bizon's customer base consists of over 120,000 users in different industries using its MIS solutions. The company's Duzon ERP I-cube is the first ERP system in Korea to use service-oriented architecture-based (SOA-based) Web service technology in all the modules of the ERP package. Duzon ERP I-cube can be easily linked to other systems, thanks to a standardized SOA-based module that includes over 50,000 business logics. The system was also designed to Unicode\* standards to provide support for multiple languages, making it an ideal system for the global management environment.

### Performance issues with inadequate hardware

Through its experience in implementing Duzon ERP I-cube at customer sites, Duzon Bizon often found it necessary to upgrade its customers' outdated PCs or servers in order to run its solution adequately. In many cases where the ERP solution ran on the customer's existing hardware, it either did not perform according to specifications, or the program failed to perform at all. “Many of our customers want the new solution to operate fully on their existing hardware,” explains Duzon Bizon's Director Yoon Jae-Gu. “But, for many customers, a hardware upgrade is required to avoid performance issues with the solution. There have also been cases where the hardware was upgraded but the solution did not perform to expectations.”

These problems can generally be caused by software limitations. However, a thorough investigation coupled with Duzon Bizon's experience in software development led the company to conclude that the problem was due not to software limitations, but to outdated and/or unqualified

PCs or servers on which the software was installed at customer sites. The bottom line was that outdated or unqualified hardware degrades the performance of Duzon Bizon's software solution, and results in lower-than-expected output for the customer's investment. PCs or servers needed to meet certain performance specifications in order to run the software optimally. This issue needed urgent attention and led the company to consider packaging its software solution with appropriate hardware that it could qualify to meet the requirements of its solution.

Duzon Bizon reviewed several options in upgrading a typical customer's system to meet the performance requirements of Duzon ERP I-cube. However, such an approach brought up various obstacles. For example, each customer's existing system was different which made every installation a time-consuming and laborious job. There was no guarantee that a customer's system could be upgraded to a performance level sufficient to run its solution effectively without doing a site infrastructure investigation first. And, experience in previous installations had shown that upgrading a customer's existing system did not necessarily guarantee that the solution would perform optimally according to specifications. There were too many variables involved that would affect the customer's expectations and perceived value of the company's solution. Moreover, Duzon Bizon believed that in the long term, the cost of upgrading a customer's existing system would be higher than purchasing new hardware. The company determined that it would be better to deliver a complete solution platform package that integrated both hardware and software to the customer. This would allow Duzon Bizon to back its product and assure customers that it would perform according to specifications.

## Qualifying the hardware platform for the software solution

To verify that the choice of hardware plays an important role in the performance of its ERP solution, Duzon Bizon ran benchmarking tests of Duzon ERP I-cube a PC with an Intel® Core™2 Duo E6550 processor, and on another PC with an Intel Core i5 vPro processor. In a test processing 10,000 invoices, the Intel Core i5 vPro processor-based PC demonstrated approximately 35 percent faster performance over the Intel Core2 Duo E6550 processor-based PC.

The test demonstrated that Duzon ERP I-cube running on a PC with an Intel Core i5 vPro processor or better provided a level of performance that would meet its customers' typical requirements and that Duzon Bizon could confidently guarantee.

Basically, when a customer purchases Duzon ERP I-cube as a standalone solution and runs it on its existing hardware, there is no guarantee that it would perform to expectations. This is usually followed by the additional costs of hardware upgrades which are generally not originally included in the customer's original budget. This, in turn, gives the impression to the customer that the benefits of the new solution may be significantly lower than the investment warranted. Customers can choose to run Duzon ERP I-cube on their existing hardware, but unless their systems are running the latest processor technologies, chances are that the solution may not perform as efficiently as it could. According to Director Yoon, "Even though low-performance hardware may not have a significant effect on the speed of inputting invoices or logistics and inventory management, it does have a negative effect on work flow in the longer term." By packaging a complete platform solution that includes qualified hardware with its ERP solution, Duzon Bizon can give its customers the best value for their investment.

## Integrated hardware and software ERP platform brings benefits

There are several benefits for Duzon Bizon to deliver its ERP solution in a package that combines Duzon ERP I-cube with the Intel Core i5 vPro processor-based platform. This applies to both the company and its customers as well.

For Duzon Bizon, these include:

- Providing a high-quality turnkey corporate management information system to its customers.
- Ability to guarantee the performance specifications of the company's ERP solution to meet customers' requirements.
- Reducing the time, effort and costs involved in deploying the entire ERP solution platform at customer sites.

Customers benefit from the integrated hardware and software solution in the following ways:

- Speedier installation as there is no need to install the ERP software solution on existing hardware, or to upgrade existing systems thus ensuring compatibility and reducing performance issues.
- Reduces system downtime as the new solution platform can be up and running quickly. Customers can quickly move up to the higher-performance system for improved work productivity and efficiency.
- Assurance that the total ERP solution package they purchase will perform according to expectations and is not dependent on the performance level of their existing hardware system.
- Enables effective budgeting for the entire ERP solution from the onset as opposed additional cost overruns for hardware upgrading.

“Outdated hardware is one of the main reasons for poor performance of newly installed software.”

*Yoon Jae-Gu*  
Director  
Duzon Bizon Co., Ltd.

“Another benefit of delivering our ERP solution as a complete package with the Intel® Core™ i5 vPro processor-based platform is the reduced cost to our clients,” says Director Yoon. “Our customers save on the costs of upgrading their existing hardware, or on purchasing the software and hardware separately, and on the IT management costs. There’s also the assurance that the entire software and hardware solution are fully compatible, which greatly reduces deployment time at the customer site.”

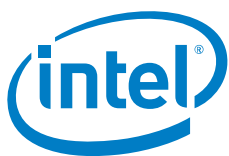
By offering an integrated solutions package consisting of the company’s Duzon ERP I-cube solution on the Intel Core i5 vPro processor-based platform, Duzon Bizon has a powerful solution that works right out of the box to increase its customers’ work productivity while improving their IT infrastructures at the same time.

Find a solution that is right for your organization. Contact your Intel representative or visit the Intel Reference Room  
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#### DUZON BIZON CO., LTD.

- Duzon Bizon Co., Ltd. is Korea’s leading software development company, providing essential solutions for the digital management environment.
- For over 20 years, the company has focused solely on developing and distributing corporate management information solutions. The company has over 120,000 corporate clients in diverse industries and has made a valuable contribution to improving IT competitiveness. The company is proud of its dominant market share in the basic management information solution and ERP-related sectors.
- Duzon Bizon is a publicly-traded total service specialist IT company. The company’s growth is being fueled by its recent commitment to four new growth engine industries: e-Tax receipts, IFRS solutions, U-billing, and Financial ERP ASP.

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