



Being one of the Leading Banks in Turkey, Ziraat Bankasi Minimizes the Remote Management and Energy Consumption Costs by Upgrading to Intel® Core™ Processors with 2nd Generation vPro™ Technology

Ziraat Bankasi of which its foundation dates back to 1888, gives service with about 23,000 employees in its 1460 branch offices. In addition, having 80 foreign branch offices in 19 countries, Ziraat Bankasi has an infrastructure that includes over 25,000 desktop computers. Playing a role in realizing the project, Fintek A.S. was founded in 2001 and usually provides services to Ziraat Bankasi and its affiliates mainly in infrastructure management, operation, strategy and investment planning consultancy, corporate software and implementation solutions and project management services etc.

"By Intel® vPro™ technology, we obtained a strong tool that allows us to control a huge number of distributively structured processors remotely and make inventory tracking. By upgrading our 18,500 Intel® Pentium® 4 computers with the 2nd generation Intel® vPro™ technology, we will save about 500,000 US Dollars in a year only from the energy consumption costs and about 500,000 US Dollars in a year from the annual field service and labor costs, thanks to these advanced remote management and repair features. This means a total of 1 Million US Dollars yearly savings."
Yunus Uygur Kocaoglu, Deputy Director General, Fintek A.S.

As a consequence of providing services to a computer infrastructure which includes a huge number of geographically distributed computers, Ziraat Bankasi was briefly having difficulties in the following four essential areas.

Performance

Because of the lower performance, the computers were starting up slower, office applications were working slower, the banking operations were lasting so long and as a result the total number of transactions made per unit of time were reducing. In Sysmark 2007 Preview, PCMark and PassMark tests conducted by the new computers with Intel® vPro™ technology, 3 to 5 times higher performance is achieved, comparing to the



Projeyi hayata geçiren Fintek ve Intel ekipleri

old computers. Besides, the performance of the transactions made per unit in the banking application is increased up to 40%.

Energy Consumption

Before the replacement, each Intel® Pentium® 4 processor a computer was consuming 79 Wh energy during average workload, 8 Wh energy when on standby mode and 8 Wh energy when on power off-mode. Energy consumption rates of computers with Intel® Core™ i5-2400 Sandy Bridge processors are dropped to 31 Wh, 2,76 Wh and 1,41 Wh respectively. Thus, the Bank with its decreasing energy consumption by 65%, had a chance to save about 135 Dollars per computer and in total 2,5 million US Dollars within a 5-year-period.

Manageability

It's decided that the lower the existing central management system costs for 18,500 computers also increasing the efficiency. In the upgraded system, it is aimed to make the remote intervention possible in all circumstances by considering the information security of the user. Therefore, the features of the hardware based properties of Intel® vPro™ technology which enables remote management when the operating system has not been responding and even the computers has been in power-off mode. Remote KVM (Keyboard Video Mouse) technology has enabled the Help Desk user interface to be displayed and controlled without needing a functioning operating system (by getting the permission from user) and allowed detecting

and repairing problems remotely. Moreover, by using Powershell scripts, the possibility of utilizing additional the benefits of Intel® vPro™ technology has been provided. Among these benefits are being able to keep the hardware inventory stock information in a private section for Intel® vPro™ instead of a barcode label and accessing them remotely at any time without having any risks of deletion and loss.

Operational Costs and Maintenance Costs

The malfunctions due to the computers' end-of-the-economic-life were causing efficiency loss. Thanks to the Remote KVM technology of the new Intel® vPro™ processors, either providing remote and fast solutions for the problems or reducing work interruption and costs has become possible. Likewise, the clients has become being able to report their inventories, even if their operating systems have been reloaded or not been working and/or they have been malfunctioned or in off-mode. With this, operational and maintenance costs has decreased.

"By upgrading the computers with Core™ i5-2400 Sandy Bridge processors with Intel® vPro™ technology, Ziraat Bankasi has achieved a decrease in the operational costs and energy consumption as well as an increasing in the performance and ease of management. Thereby, the daily operation volume and user satisfaction have been raised."
İshak BAŞUSTAOĞLU Infrastructure and Operations Director , Fintek A.Ş.