

# **Implementation of Internet-Banking infrastructure based on open source environment**

## **Project Overview**

### **Background of the project**

For the past a few years, dramatic improvement in IT industry caused huge changes throughout Korean industry. Consequently, not only in banking industry but most of services are now available on-line and off-line. As a result, Internet-Banking has become a deperate service and the demand is increasing consistently as growing young generation are preferring on-line service.

### **Object of the project**

Even though many applications based on open source have been developed, Internet-Banking services are still remained as an undeveloped area. The object of this project is not only to provide an Internet-Banking service but also to contribute to broadening utilization of open source software.

### **Goal of the project**

- Construction of an Internet-Banking infrastructure on open sources environment.
- Maintaining compatibility with existing system, establishing maintenance plan and security authentication system.

### **Customer Requirements**

- High availability server
- Internet-Banking application for clients operating on Linux OS
- Security modules based on open source
- Compatibility with existing system
- Implimentation and maintenance plan

## **Internet-Banking Consortium and products**

A consortium for the project has been established with leading companies which have the required products and adequate experience in each field. All related products were certified to Asianux in regards to stability and compatibility. All members and products are listed as below;

### Implemented products

Haansoft : Haansoftlinux 2006 Server Asianux Inside for Server OS and Haansoft Cluster for HA Clustering solution

HyunDai Information Technology (HIT) : Development of internet banking application

BEA : EJB server

KICA : PKI module

Secubrain : Enhanced security kernel module

INKA : Keyboard protection module against keyboard hacking

HP : HP585 Server (H/W)

## **Role Definition for Haansoft**

- Supplying server OS with Haansoft HA cluster to handle massive and important data.
- Providing instruction and system maintenance plan.

## **Effects evaluations**

- Internet-Banking system has settled down based on asianux-certified applications and H/Ws with Asianux operating as a mission-critical server.
- Providing one of the critical application and compatibility with various platforms, it gives us various opportunities to choose OS and H/W.
- It has become a good example of open source software implementation to both public institutions and private organizations.