



integrated

## Case Study—Lenovo

### Background

Lenovo Group Limited was founded in 1984 by a group of eleven engineers, and invested RMB 200,000. It has developed as the diversified enterprise in information technology industry. The total annual profit reached to HKD 20.2 billion in 2002 and it has 12000 employees currently. The company shares were listed on the Stock Exchange in 1994 (SEHK: 0992), which is the constituents of Heng Sang index. In 2002, market share of Lenovo was 27.3% (source: IDC), Lenovo has become the market leader for seven years since 1996. Lenovo Group was awarded as the market leader of Pacific-Asia market (excepted Japan) for twelve years, until the end of March in 2003(source: IDC). In the 2<sup>nd</sup> quarter of 2002, the Taiwan series computer and the consumer PC of Lenovo were firstly ranked top 5 and top 3 of the world's consumer PC market respectively.

### User Requirements

1. Administration of employee attendance is needed for huge sum of employees.
2. Lenovo has branches in many China cities; hence, centralized attendance administration is needed over the branches.
3. Cost control is considered due to the huge sum of employees; the cost includes paper and cards. Maintenance of cost is needed as well.
4. To facilitate paper-less operation in the office, such as sick leave application. To practice attendance management of flexible work schedule.
5. Administration of access and attendance are managed separately.
6. Management of incorporation between access control and timing. Through electronic map to carry out real-time monitor.
7. Through Lenovo internal local area network to proceed internet management.
8. Head quarter is able to monitor the branches, whilst the branches can practice self-authority.



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## Project Description

1. 160 door access and 20 attendance points are distributed in seven buildings over Beijing and Shenzhen.
2. Mifare1 contactless card are applied requested by customer. Mifare 1 contact-less card are used. Through the pastered card surface, repeated usage is allowed and cost can be reduced.
3. Access control and attendance system are on the basis of Integrated standard products. The relevant customized functions are added under customer request in order to fulfill their needs.
4. Server is set in the new buildings of Lenovo to control all the system. PC workstations are set up in each distribution for system control. Personnel data are logged on regularly via HR system.
5. Access control and attendance system are expanded continuously under the development of Lenovo. Door access and attendance point is increased up to 300 and 80 respectively. Operation of the system and functions remain stable.