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## Case Study—China Southern

### Background

China Southern Air holding Company and together with its subsidiaries (Xiamen Airlines Company Limited, Southern Airlines Group Shantou Airlines Company Limited, Guangxi Airlines Company Limited, Zhuhai Airlines Company Limited, Guizhou Airlines Company Limited), collectively named as China Southern Airlines Company Limited, is the largest airline in The People's Republic of China.

As of the end of 2002, China Southern operated 349 routes comprising 286 domestic routes, 43 international routes, and 20 routes in Hong Kong. It ranks first among all Chinese airlines in terms of volume of passenger traffic, number of scheduled flights per week, number of hours flown, number of routes and size of aircraft fleet.

### User's Requirements

1. User access permission should be managed due to large number of personnel.
2. IC smart card should be applied for canteen and car park management.
3. Cost control should be considered due to the large number of personnel; the cost includes paper and cards. Maintenance of cost is needed as well.
4. Paper-less operation in the office such as paper-based sick leave application, should be practiced. Flexible work schedule should be practiced as well.
5. Access control should implement permission and time zone management and carry out real-time monitor through electronic map.
6. Through internal local area network to proceed internet management.
7. Head quarter is able to monitor the branches, whilst the branches can practice self-authority management.



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## Project Descriptions

1. 35 access control points, 8 POS points, 2 car park gates are distributed over two buildings of China Southern.
2. Mifare1 contactless cards are used upon request. Through the pastered card surface, repeated usage is allowed and cost can be minimized.
3. Access control and attendance system are on the basis of Integrated's standard products. The relevant customized functions are added upon request in order to fulfill their needs. The server is set inside the airport building to take main control of the system. PC workstations are set up in each distribution to control domestic system. Personnel data is regularly transferred via HR system on real-time basis. Operation of the system and functions remain stable and in use.  
Access control and attendance system are expanded continuously following with the development of China Southern. The subsidiaries are currently under the arrangement for one-card solution project.