



IBMS for Nanjing Merchants Property International Financial Center

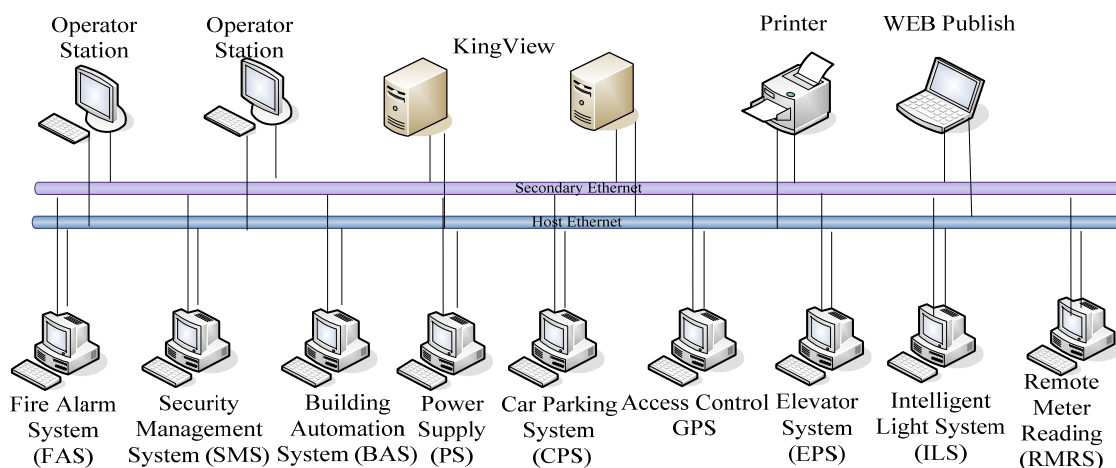
Project Background

Nanjing IFC (International Financial Center) operates out of a 51 story office building designed by HOK, a global architectural firm in the U.S, with a height of 220 meters and a total area of 1,269,000 square feet (117,882 m²). It is located in the heart of Xinjiekou - the central business district and premier retail hub of Nanjing.

The Assessment Council of the Intelligent System Engineering of Nanjing Merchants International Financial Center was organized by the Intelligent Building Committee Congress of China Construction Industry Association, was convened in Nanjing, China. After the experts group finished questions and discussion on related issues, the project successfully passed the acceptance of intelligent systems engineering assessments, and was granted the title of a "High Quality Intelligent Building Project".

System Solution

Based on TCP/IP network enterprise INTRANET networks, KingView combines subsystems including Fire Alarm, Security, Building Automation, Power Supply, Lighting, and Elevator systems together into one single unified automation information platform.





Features of the integrated system solution:

1. Provides users simple and uniform interfaces to manage and control each subsystem of the building automatic control system.
2. Provides C/S (Client/Server) and B/S (Browser/Server) architectures by adopting open TCP/IP network protocols.
3. Provides remote monitoring, management and database access functions via Internet, dial-up and other ways. Provides easy to understand real-time user operation of the system.
4. Enhances the capacity of information and data exchange between fire alarm, security monitoring, and background broadcast systems and improves system interconnection performance.
5. Systems integration does not need to replace the function of each subsystem running independently, but to provide interconnection functions between various subsystems. Each subsystem is independent and its function won't be weakened along with the integration.

System Integration Functions

WellinTech product provides Building Automation System with a powerful software platform which integrates each building control subsystem together through the interface program. Operators can monitor and control each subsystem through this platform.

Main functions of Integrated System are as follows:

1. Graphical man-machine interface - Powerful graphics capabilities combined with a professional library, KingView provides perfect spot running simulation to make the operation simple and convenient.
2. Centralized management of subsystem operating parameters – Through the KingView platform, users can manage subsystems' parameters, and simplify operation and facilitates for operator use.
3. Centralized display subsystem event - All event information of each subsystem can be displayed through a unified software platform to inform the operator of the operational status of all subsystems timely and accurately, and to make a comprehensive assessment of the building system and control decisions.
4. Data storage and analysis - KingView software combined with SQL database provides powerful data storage and analysis functionality.



5. The report generation - Through the unified platform, KingView can automatically generate a variety of operating reports.

Advantages of the solution:

1. System integration enhances the effectiveness of building automation subsystems
2. Centralized management and control facilitates users' centralized monitoring
3. Open interfaces and flexible configuration are conducive to the secondary expansion of the system
4. System integration reduces the operating costs, while increases software revenue

System Screens



Fig. 1 Main Screen of Runtime



Fig. 2 Building Control System

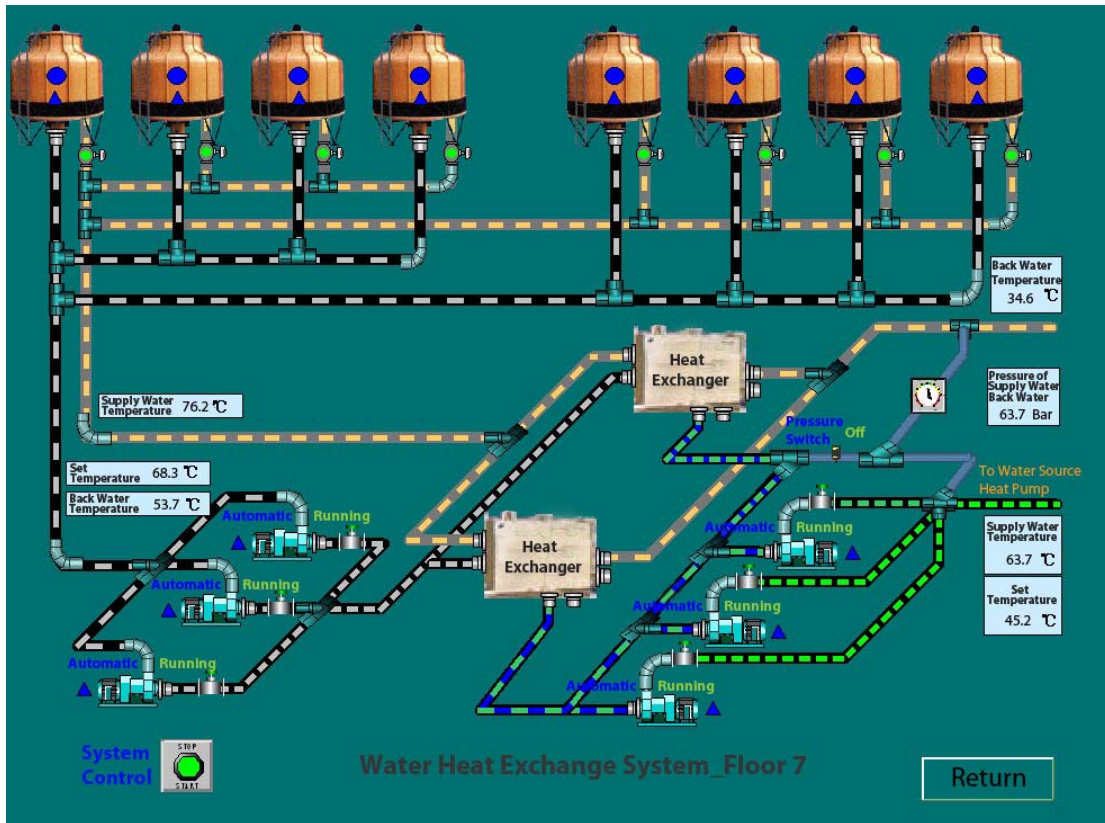


Fig. 3 Water Heat Exchange System

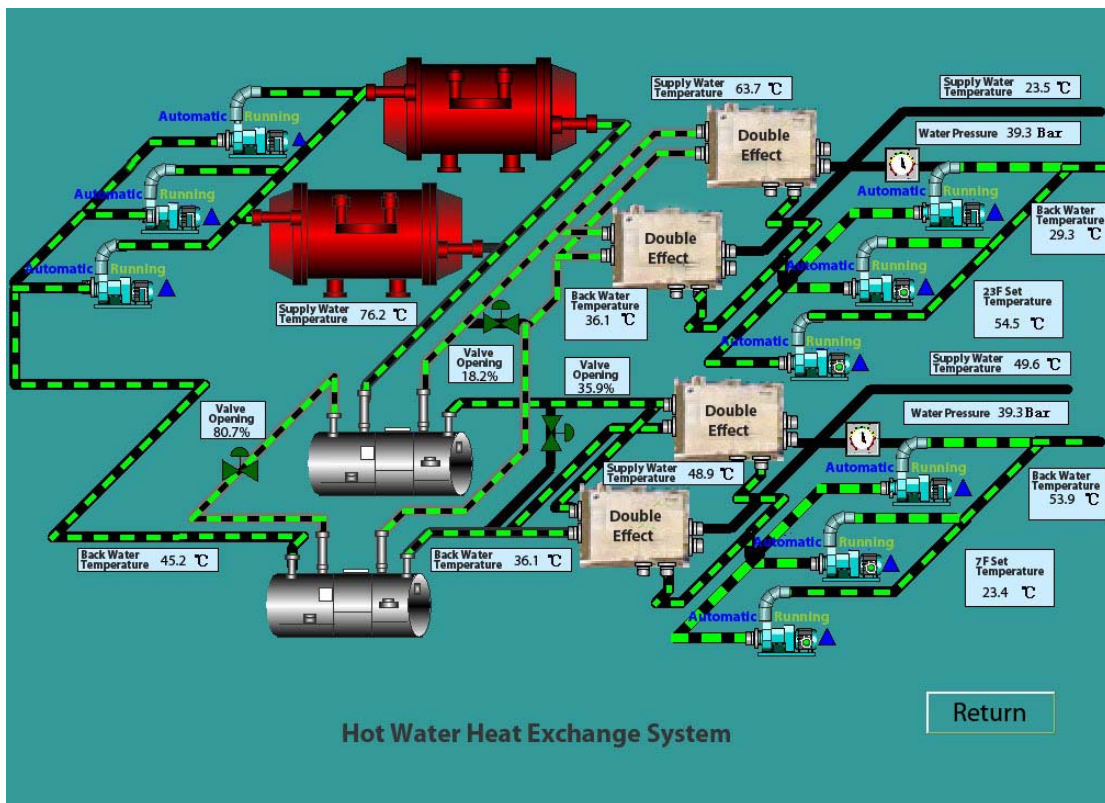


Fig. 4 Hot Water Heat Exchange System

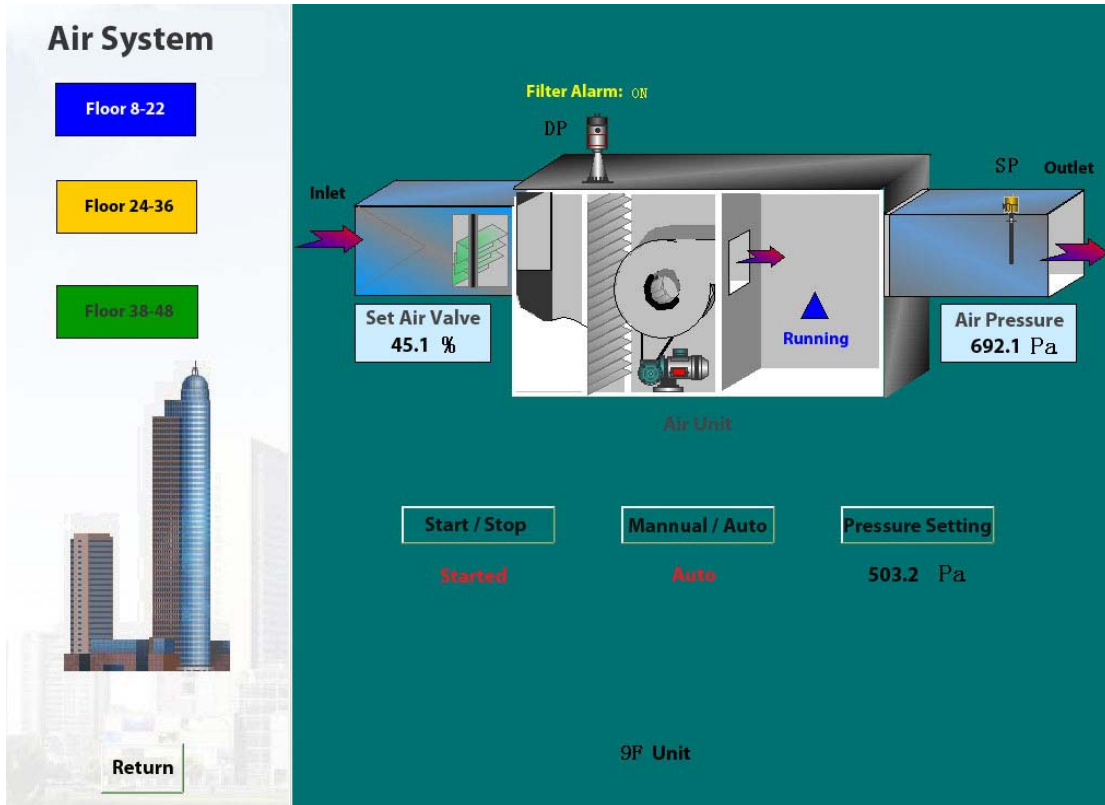


Fig. 5 Air System

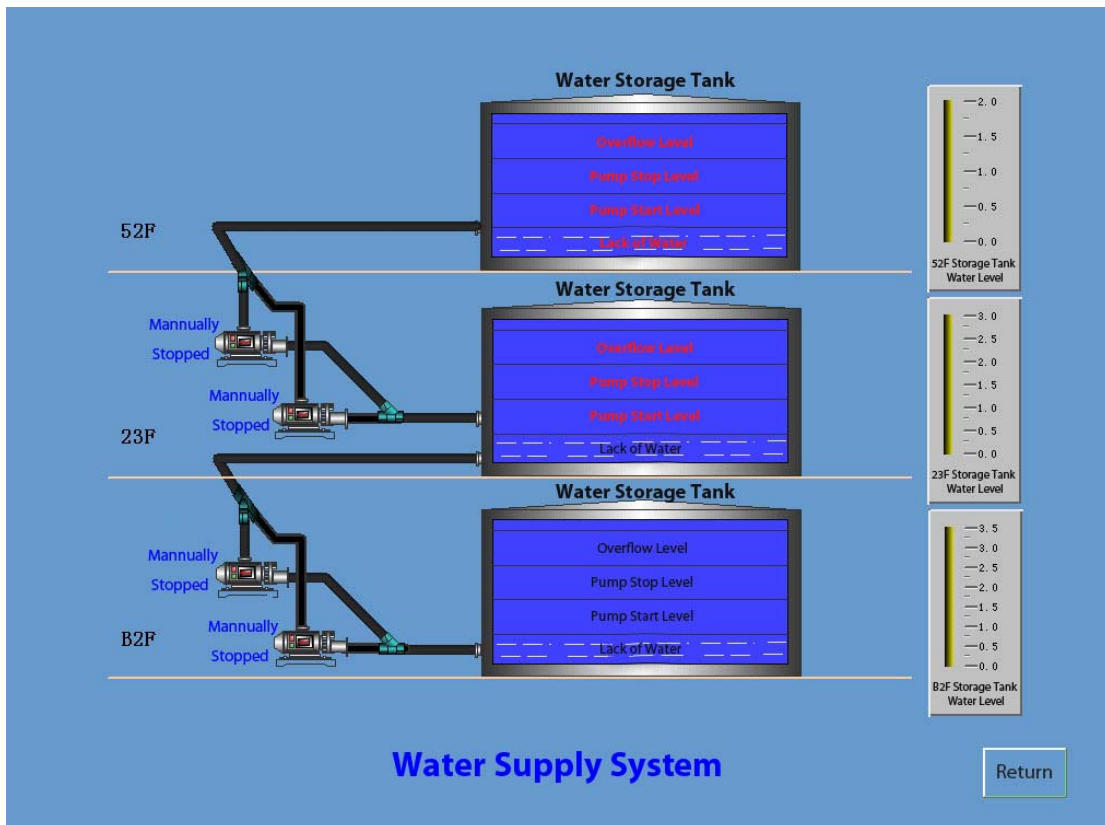


Fig. 6 Water Supply System



Fig. 7 Security System

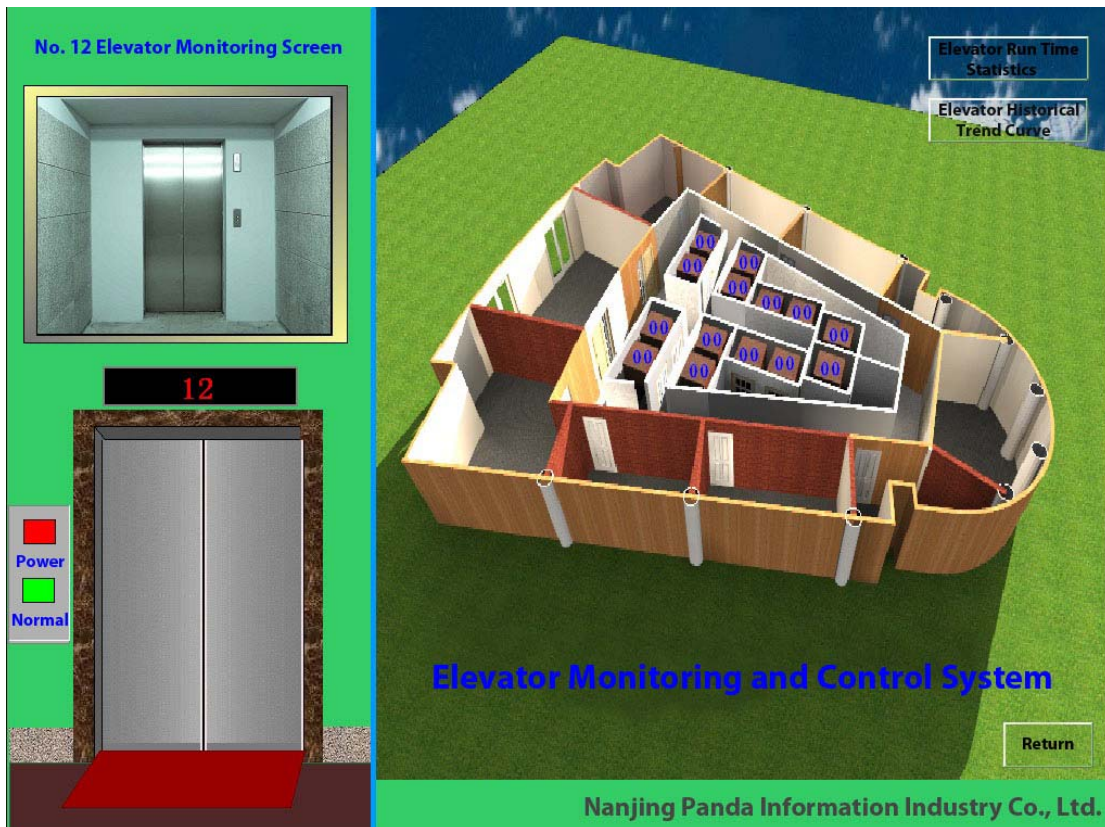


Fig. 8 Elevator System



Real-time Alarm Information

Local

Alarm Date	Alarm Time	Tag Name	Alarm Type	Event Type

Historical Alarm Information

Alarm Date	Alarm Time	Tag Name	Alarm Value	Event Type	
2009-12-1	20:10:05	921	ALARM66	Open	Alarm
2009-12-1	20:10:06	171	ALARM67	Open	Alarm
2009-12-1	20:10:06	421	ALARM68	Open	Alarm
2009-12-1	20:10:06	671	ALARM69	Open	Alarm
2009-12-1	20:10:06	921	ALARM70	Open	Alarm
2009-12-1	20:10:06	921	ALARM70	Open	Alarm
2009-12-1	20:10:05	921	ALARM66	Open	Alarm
2009-12-1	20:10:06	171	ALARM67	Open	Alarm
2009-12-1	20:10:06	421	ALARM68	Open	Alarm
2009-12-1	20:10:06	671	ALARM69	Open	Alarm

Start Time : 2009-11-05
End Time : 2009-11-03

Fig. 8 Alarm System

10:41:18...LQB7F1TOL)
10:51:18

10:41:18
10:43:18
10:45:18
10:47:18
10:49:18
10:51:18

600 s
Actual Value of the Adaptive
Hide List

Legend	Tag Name	Hide Curves	Time At Left	Left Value	Time At Right	Right Value	Min	Time of Min	Max	Time of Max	Average	Unit
—	Local\LQB7F1TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						
—	Local\LQB7F2TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						
—	Local\LQB7F3TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						
—	Local\LDB7F1TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						
—	Local\LDB7F2TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						
—	Local\LDB7F3TOL	<input type="checkbox"/>	2009/11/08 10:41:18	0.00	2009/11/08 10:51:18	0.00						

Fig. 8 Trend Curves



CAGE/NCAGE Code: 3FNFO

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High Quality Data Acquisition and Embedded Control Products