

Application Note

iPanel

Jurong Town Corporation - Electronic Messaging System



Project Scope :

Design, supply, testing, commissioning and maintenance of an Integrated Electronic Messaging System for 20 Blocks of JTC Flatted Factories.

Configuration :

- Number of JTC Blocks : 20
- Number of Electronic Message (EM) Boards : 100
- Central Server : 1

Number of Networks :

- Local RS485 Network for EM Boards to Modem
- PSTN Dial-Up communication

Description Of System Architecture

The Integrated Electronic Messaging System (IEMS) consists of a Central Server and network of LED-type EM Boards linked using PSTN dial-up lines. There is one EM board for each of the lift lobby of the JTC Block. For example AR20 with six (6) lift lobbies has six (6) EM boards.

Each EM Board has two (2) RS485 networks. One for network to the PSTN Modem for communication to the Central Computer.

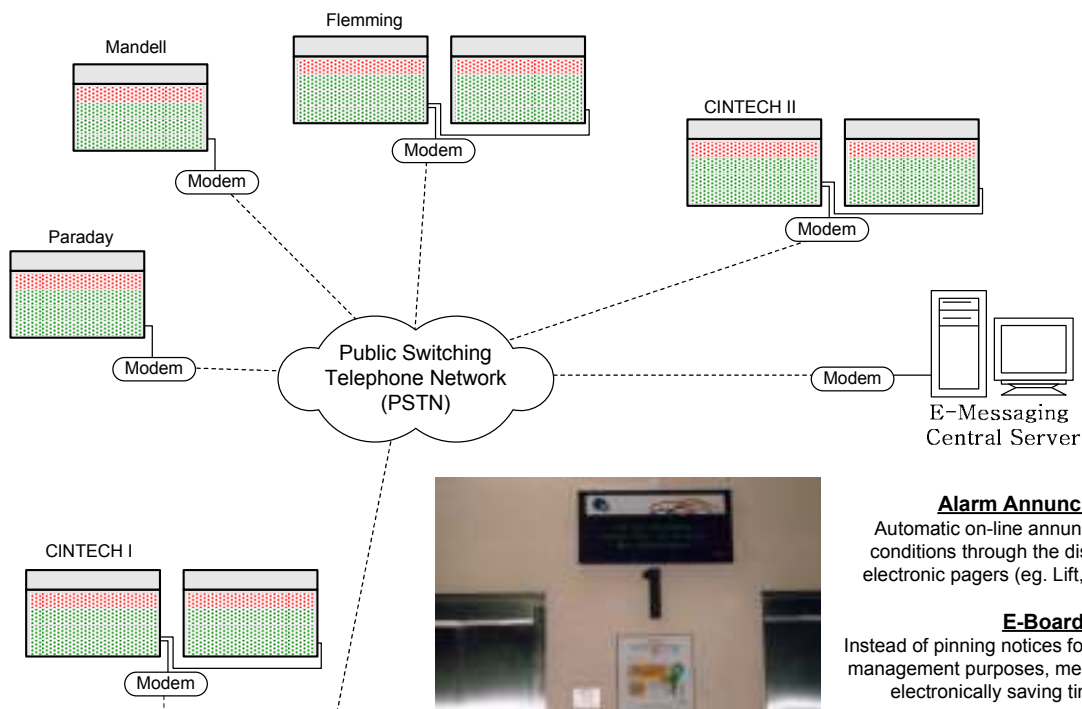
Maintenance And Property Management

From the Central Server, electronic messages can be posted electronically for display. Such information consists of Maintenance and Property Management Notices and Classified Advertisements.

Building Automation System

The other RS485 is for communication with the Building's Building Automation System (BAS) system that consists of a Master FP10SH PLC.

Real-time alarm annunciations can be posted automatically in case of faults that effects the tenants business operations. Such as Fire Alarms, Utilities Disruptions and Problems with Lift Services.



Lift Lobby of AR20

Alarm Annunciations

Automatic on-line annunciation of alarm conditions through the display board and electronic pagers (eg. Lift, ACMV, Utilities)

E-Board

Instead of pinning notices for maintenance and management purposes, messages are posted electronically saving time and effort.