EEM

Enterprise Environment Management

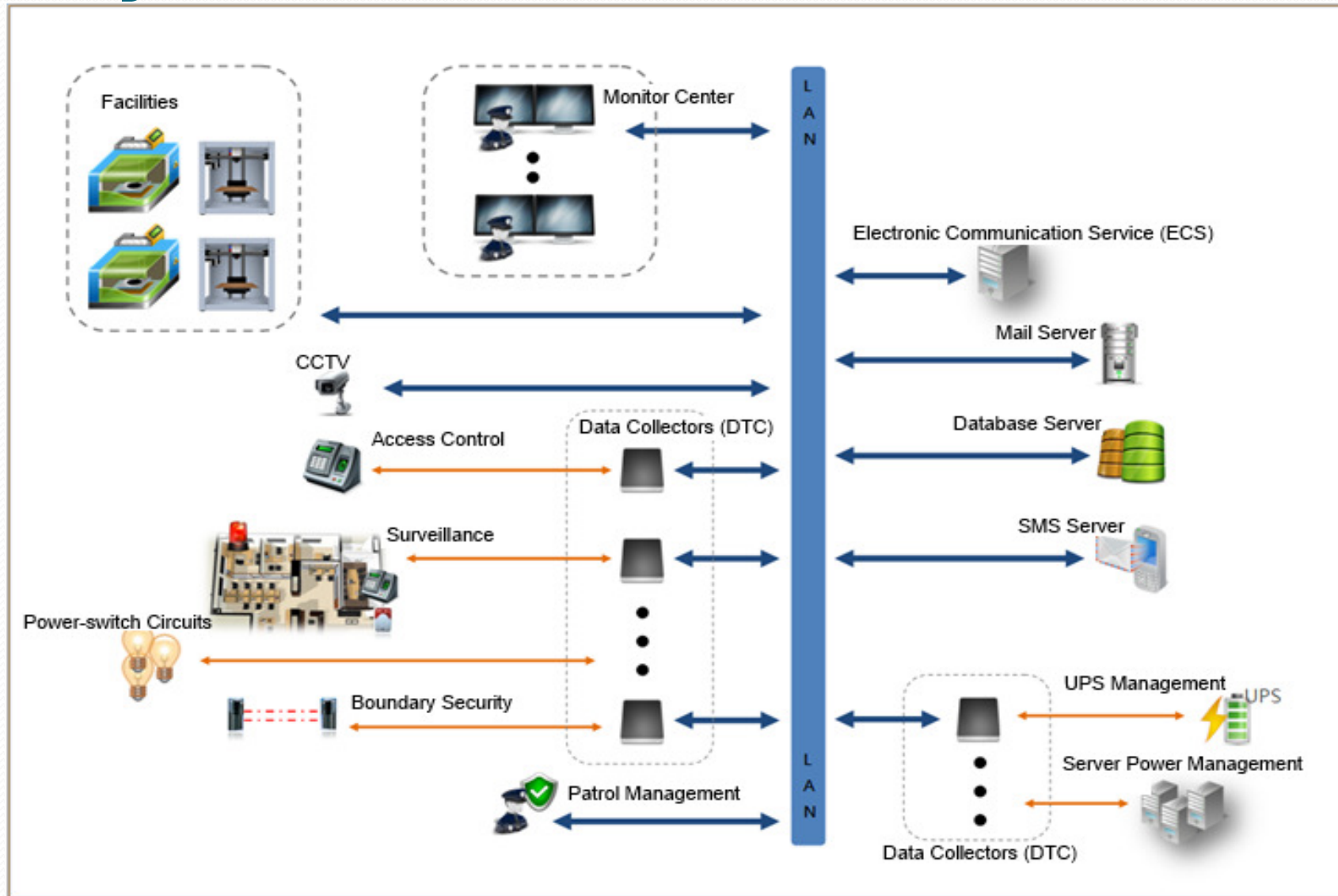# Agenda

A. Solution outline

- **Efficiently integrating all diverse and discrete monitoring/management system in one.**
- **Gathering enterprise environment security, information security, and manufacturing facilities data utilizing IT technology, LAN, and Emctek's data collector (DTC).**
- **Analyzing and building power plan by monitoring power circuits.**
- **Building environment management database.**
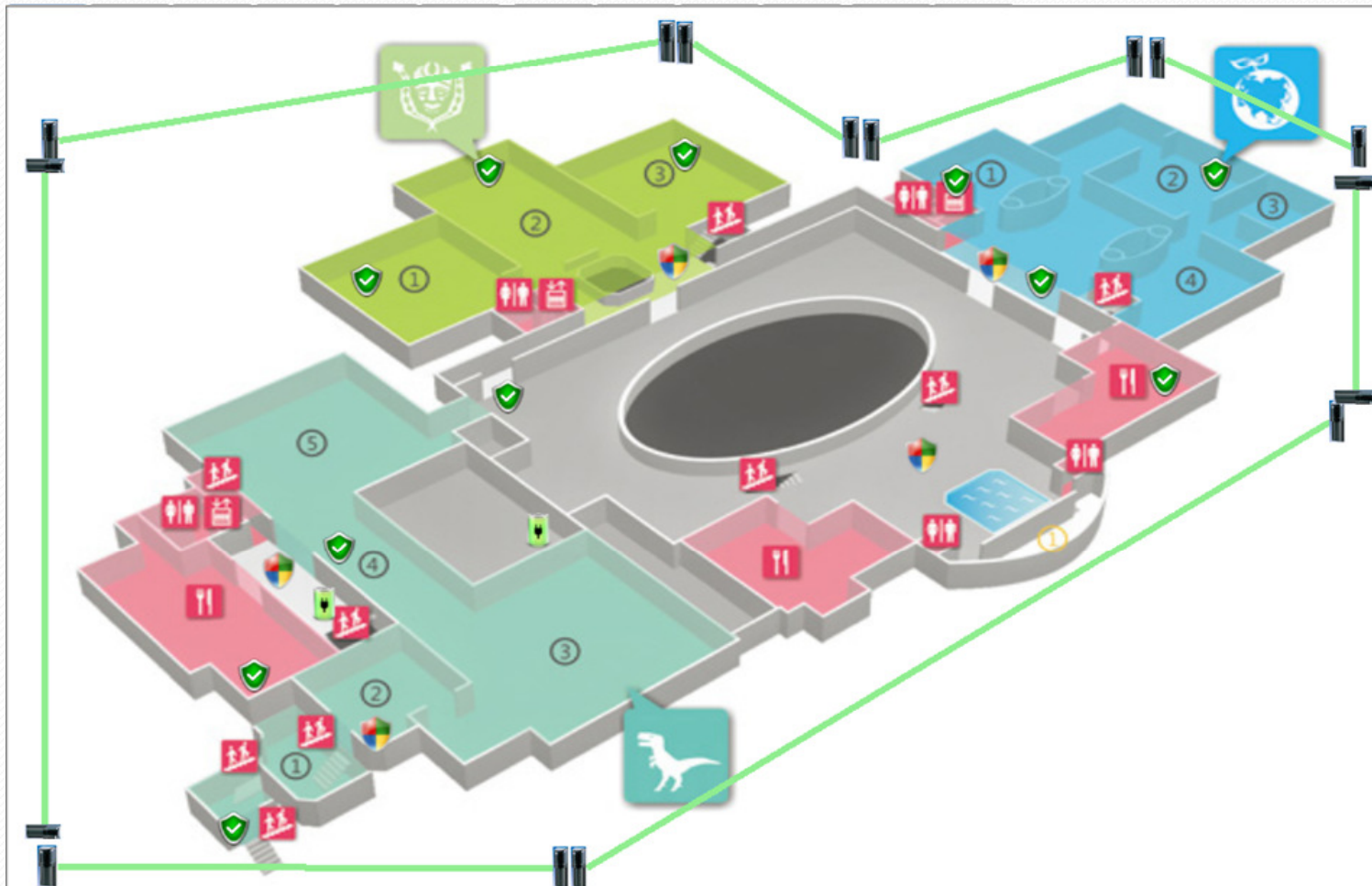- **Building reaction plans for monitored facilities.**

A. System architecture

B-1. Environment security

- The scope of environment security includes boundary security, access control, CCTV, environment sensors…etc.

- All equipments capable of connecting and manipulated with network port, serial port, or dry contact can be integrated and managed in our solution.

- Building facilities event and alarm plans. Our solution is capable of notifying user by bell, lighting, email, or mobile SMS.

- Related surveillance camera video can be played on system while specific facilities and events occurs.
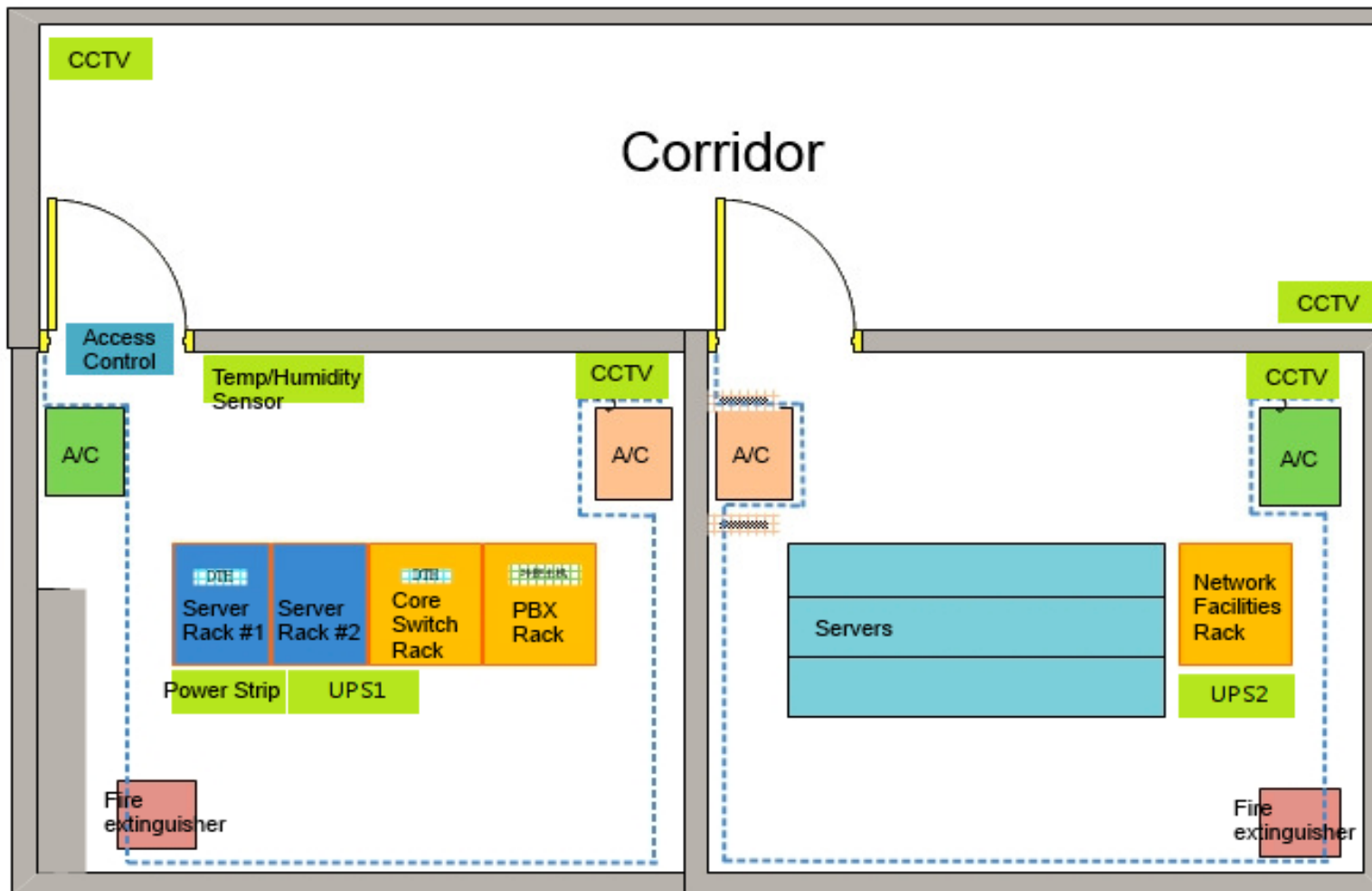
B-1. Environment setup illustration

This figure shows the digital map of a monitored environment. When events occurs, corresponding icons start blinking and alarming. Email or mobile SMS can also be configured for receiving notification.

B-2. Information security

- The scope of information security includes server room access control, UPS management, temperature/humidity monitor, power strip control…etc.

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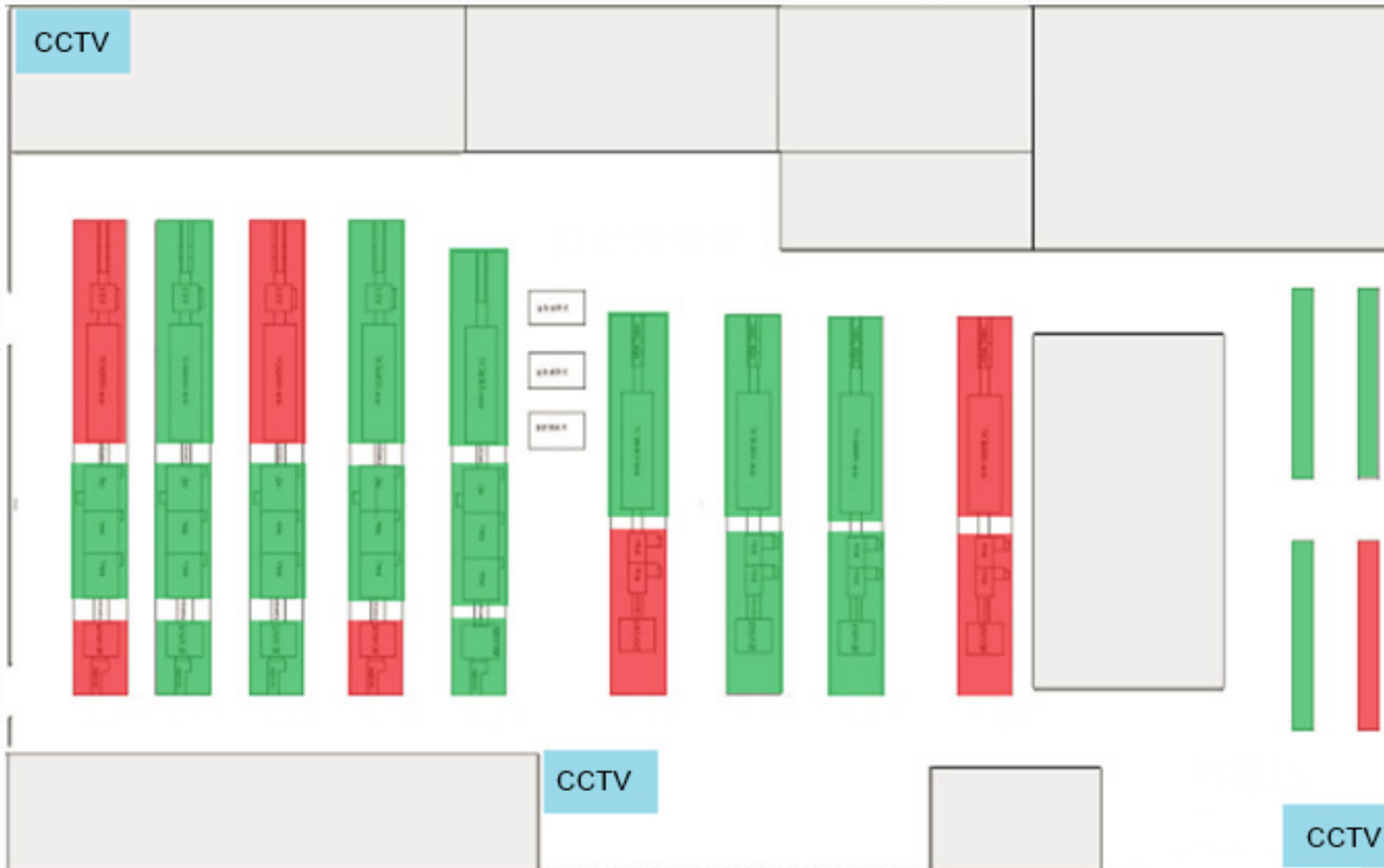
B-2. Server room monitor

This figure shows the digital map of a monitored server room. When events occurs, corresponding icons start blinking and alarming, and related CCTV video will be played on system.
Email or mobile SMS can also be configured for receiving notification.

B-3. Manufacture monitor

- The scope of manufacture monitor includes manufacture equipments, sensors, CCTV…etc.

- All equipments capable of connecting and manipulated with network port, serial port, or dry contact can be integrated and managed in our solution.

- Gathering and managing equipments data and utilization.

- Building facilities event and alarm plans. Our solution is capable of notifying user by bell, lighting, email, or mobile SMS.

- Related surveillance camera video can be played on system while specific facilities and events occurs.
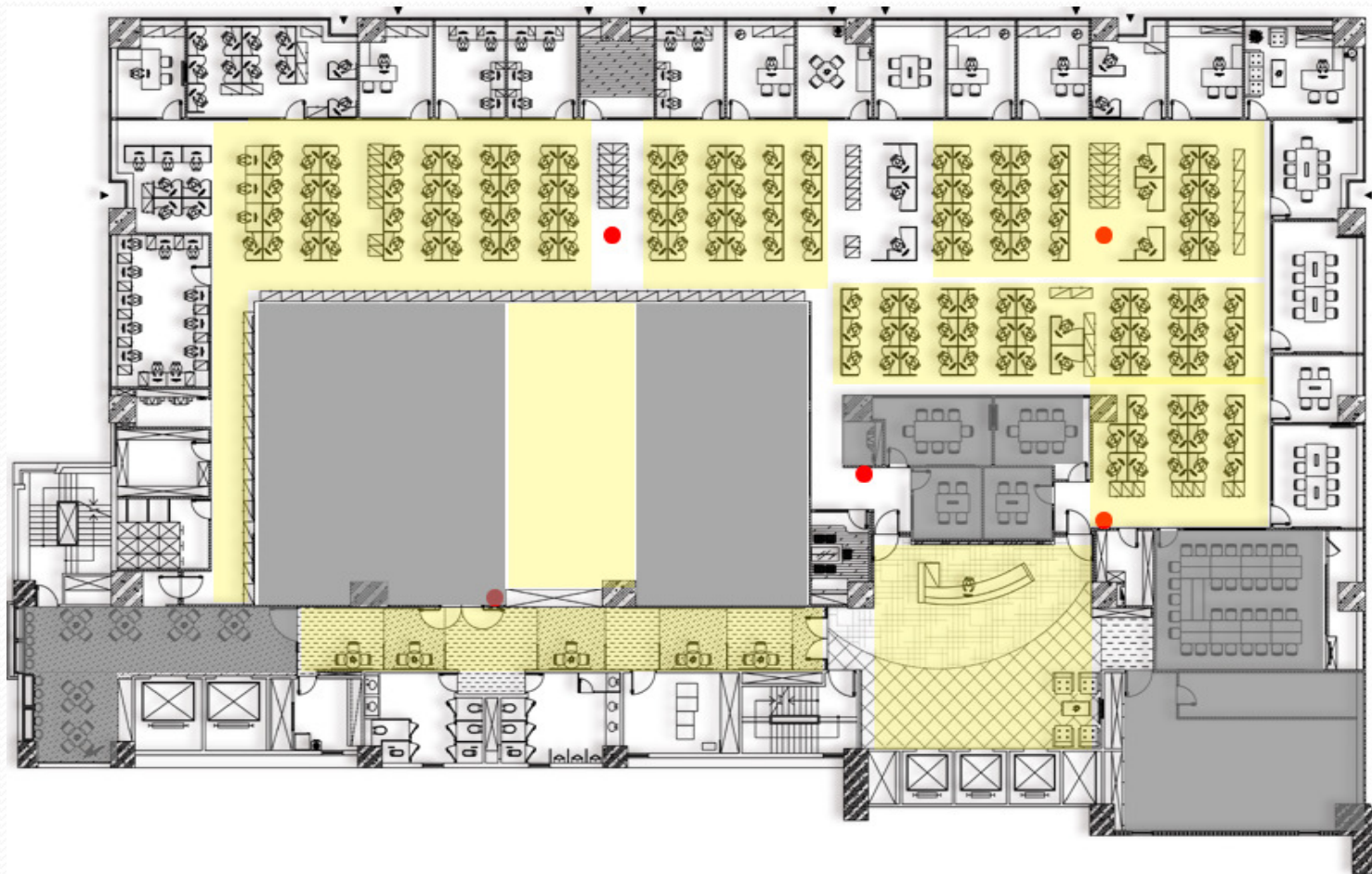
B-3. Facilities utilization

This figure shows the digital map of a manufacture workshop. The system is displaying equipments with different color automatically and periodically by calculating it's utilization rate on the fly. User can watch CCTV video on the system to catch up with real time status.

B-4. Power-switch control

- Our solution can replace traditional power switch.
- You can control power circuit through network, including light, air conditioning…etc.
- All electronic appliance can be integrated and managed in our solution.
- You can build customized auto power on/off schedule for each circuit to optimize the utilization of resources.
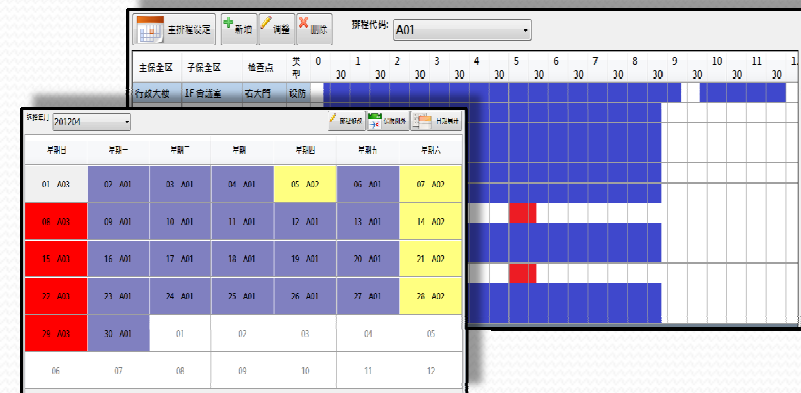
B-4. Office lighting control

This figure shows the digital map of a office lighting system. The system is displaying lights with different color indicating their on/off status. You can also click on specific area of the map to turn lights on/off. You can replace traditional switch by running our system on a touch-screen tablet. You can also setup customized schedule to turn lights on/off at specific time automatically.

C. System characteristic

- **Providing visual digital map management with user friendly color and icon setup.**

- **Monitoring at multiple and remote locations.**

- **Easy and rapid deployment. Add or remove monitored facilities at your fingertips.**

- **Transmitting by LAN stably and avoiding false alarm due to distance between server and facilities.**

- **Configured by levels of function/area/sub-area.**

- **Customizable automatic schedule for various facilities.**

D. System advantages

Higher stability
Emctek's DTC supports dual server HA & load balancing, thus increases the system stability.

Lower cost
Emctek's DTC performs duplex transmission with existing LAN, and it's easy and fast to modify DTC deployment, bringing minimized building and maintenance cost.

Higher expansibility
Emctek's DTC provides multiple external ports (serial, usb...etc) to connect various modules such as finger print or manufacture facilities, without the necessity of upgrading server.

Increasing efficiency
Emctek's solution provides events reminder, tracing, and detailed logging to help users handling events in a more efficient way.

Enhanced resilience
Emctek's solution utilizes digital map to help rapidly identify event location, thus enhances user's resilience to event handling.