Josh’s Proposal (Inspired from Bijoy’s Proposal)

Customer Requirements:

FSM: A **F**ire and **S**ecurity **M**onitoring System

1. **System shall have these functions**
   1. Security Monitoring
      1. Seamless and no blind spots video monitoring in public areas, *i.e. hallways, entrance an etc.*
      2. Trigger security alarm if unauthorized activity is detected on the security system itself. *i.e. unplug camera, unknown device connected and etc.*
   2. Security Alarm Responding
      1. Security Alert: Immediately activate silence alarm, option to activate sound alarm
      2. Security Control: Perform multiple action to control suspicious activity
         1. Some internal doors shall be locked automatically
         2. The option to isolate complete zones by automatic door locking.
      3. Security notification: Notify the suspicious activity to designed organization and personal, *i.e. police department, security personals*
   3. Fire Monitoring
      1. Monitor fire stages
         1. \_Normal: No indication of fire has been discovered.
         2. \_Fire Watch: An indication of fire has been discovered
         3. \_Fire Alert: An fire has been confirmed  
            *(Please see Pg. 2 “Normal activities under different fire stages)*
      2. Sensing if there is people
   4. Fire Responding
      1. Fire Alert: Immediately activate sound alert, illuminate emergency light
      2. Fire Control: Perform multiple action to control fire
         1. Normal: Actions to control fire in general area(s)
         2. Special: Actions to control fire in special designed area(s), *i.e. Archives room, computer database room and etc.*
      3. Fire notification: Notify the fire to designed organization and personal, *i.e. fire department, security personals*
2. **Function Controls**
   1. All functions shall be automatically/semi-automatically controlled.
   2. Shall be able to manually control by authorized personals.
   3. Only higher authorities *i.e. supervisor, fire department, police department* shall be able to disable or downgrade an alarm.
   4. In the event where security and fire alarm are both active, consider fire alarm higher priority.
3. **Without sacrificing the quality, budget shall be as low as possible**
4. **Appendix**
   1. Normal activities under different stages
      1. Normal: No indication of fire has been discovered.
      2. Fire Watch: An indication of fire has been discovered
         1. No fire responding system(s) *i.e. sound alarm, water sprinkler and etc*. shall be activated.
         2. Shall immediately notify the FSM staff on system monitor with details
         3. Fire watch light shall be illuminate in the corresponding area(s)
         4. Shell automatically activate fire alert within a reasonable time.
      3. Fire Alert: An fire has been confirmed
         1. Shall immediately activate sound alert, illuminate emergency light and set elevators on “fire mode” in all areas.
         2. Shell turn off ventilation system in corresponding areas
         3. Notify fire department and security personals.
         4. In designed area(s), the system shall lock the door and activate gaseous fire suppression system([Wiki](http://en.wikipedia.org/wiki/Gaseous_fire_suppression))   
            *(Specific delay time allowed for people to get out when there is people inside)*
         5. The option to isolate complete zones by automatic door locking.
         6. Shall shut off electricity and activate sprinklers in general area(s)   
            *(Specific delay time allowed for people to get out when there is people inside)*