# Functional Requirements

* **DONE**. If developed using .NET, run as a Service on Windows 2008 server (Virtual)
* **N/A**. If developed using Java, run as a Daemon on RHEL 5/6
* **DONE**. At startup and at a configurable frequency, read from a database to obtain latest configuration options
* **DONE**. Login and check a pop3 eMail account at a configurable frequency *(able to check through gmail pop3 account)*
* **DONE.** Check for new mail, keeping a record of mail already checked *(stored in inbox table of mysql database)*
* **DONE**. Based on configuration information, check eMail Sender, Subject and/or body for specific key words.
* **NOT UNDERSTOOD.** If same message appears in eMail queue more than once, log this *(do you mean that, if the \*same events\* occur more than once, I must log this? For example : Oracle server goes offline email, occur twice? )*
* **PARTIAL.** Based on the information found in the Sender, Subject and/or Body send an SMS to a Mobile Telephone number(s) *(the code already prepared for the device)*
* **PARTIAL.** Based on the information found in the Sender, Subject and/or Body optionally make a call to a Mobile Telephone number(s) *(the code already prepared for the device)*
* **NOT YET.** SMS/Call to be acknowledged within configurable time – this capability to be subject to *(accepting an sms reply/voice call is still doable, but I must test it using the sms gateway device. Will add a Time acknowledgemnt interval in the settings)*
* **NOT YET.** No acknowledgement results in additional SMS / Call to one or more telephone numbers *(accepting an sms reply/voice call is still doable, but I must test it using the sms gateway device)*

# Logging:

Every Startup/Stop to be logged **(DONE),** every check of eMail to be logged  **(DONE),**

If Service stopped abnormally eg Service killed, log entry to be made on next startup **(DONE)** *(every service start/stop, a log entry always comenched)*

Activity logging to be configurable to several levels:

None: No logging to be performed **(DONE)**

Normal: Time, Date, Sender, Subject, SMS **(DONE)**

Debug: Time, Date High level of information captured for Each and every action / code step, eMail account, Sender, Subject, Body, Mobile Number, SMS, Outcome eg move to next step **(DONE)**

# Log review

**PARTIAL.** Just see this, I was thought that the Windows Event Viewer already suitted for this features. Will confirm you first whether we still need it to complement Windows Event Viewer.  
DECISION : Remove Windows Event Viewer, replace with MySQL Log, as it offer more robust log reviewing

* Form to allow review of logs **DONE**
* Log file search by
  + Date/Time **DONE**
  + eMail account **DONE**
  + SMS
  + Subject

Or combination of above