Performance requirements

1. The system shall be able to support 3 terminals or points of access per user account.
2. The system shall be able to support at least 10 users logged on to the system at the same time.
3. The system shall process the data files being streamed in from the sensors.
4. The system shall process only a selected sensors data initially from the last 24 hour time period but can be specified to a specific frequency, such as minuets, hours, days, etc.
5. The system shall store the following information for each registered user:
   1. Full name
   2. Title
   3. Position
   4. Institution
   5. E-mail
   6. And phone number
6. When a user saves a data property the system shall store the following information along with the data property:
   1. Author
   2. Data created
   3. Date modified
   4. Modifier’s name
7. The system shall allow the user to export the data files they are viewing as a choice of a text file or a PDF file.
8. The system should allow the user to import data from data files for the system to analyze.

Availability

1. If the system encounters an error the system shall continue to collect the data being streamed in from the sensors.

Security

1. The system shall encrypt the registered user’s information using triple DES encryption.
2. If a data property has ben shared publicly the system shall not allow the user to remove the data property
3. The system shall not allow un-registered or guest users to:
   1. Create new data properties
   2. Delete data properties
   3. Modify data properties
4. The system shall check the incoming data in the data files against the previously stored data in the database to ensure the integrity of the data coming in
5. The system shall allow a user who has created a data property to grant access to specific individuals or groups.

Portablility

1. The system shall be continuously available though the web interface as long as the server handling web interface remains operational
2. The system shall be available on windows and Apple computers