Memorandum

## To: Dr. Pennington

## Dr. Salamah

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From: Software Development Advance Technologies

Date:

Re: Requirement Clarification

Confidential

Thank you for taking time to review our current prototype of the system. The purpose of this memo is to get further clarification on some of the features and functions that we discussed during the presentation on 4/9/2013. This will assist us in defining the requirements for the system so that we can implement the necessary functionality that will benefit your needs.

Quality control of data was mentioned during the interview. Are there set procedures or protocols that a scientist must adhere to ensure the quality of data? For example, a scientist must get a second opinion from another colleague when using a data property. Another example can be a scientist must report an abnormal data within 24 hours. With these examples in mind, how would you like the system assist scientist to ensure the quality of data?

What type of scientist will be using the system primarily? For example, Geologist or Meteorologist.

What are some of the common frequencies when data is being measured? (Minutes, seconds, hours). Can the user specify, or is it dependent on the sensor?

What type of sensor’s metadata is presented to the user? For example, serial number, manufacture number, sensor location, previous results.

What type of file formats exist that will be inputted into the system to be analyzed?

What data will the user be inputting when describing a file format? Will it only by file extensions, will they describe the columns, will they input how the data is separated, or another form that we have not mention?

Is it possible to send us several sample files of data that a typical user will use on the system?

If there is an error with the system will the system keep collecting data or halt with an error message and wait for user to address the error?

Currently a data property can only be private or public; however, would you like the user who created a data property to grant access to certain a group of individuals?

Would you like the system to keep a record of a user’s full name, title, position, institution and contact email, phone number?

Would you like the system to keep track of a data property’s author, date created, date modified, and by whom?

Will the system keep a history of all anomalies?

Will the user have the capability to completely remove the property from the system or can they only remove it from their collection of favorites?

The system shall run on Windows 8, 7 and Mac OS operating system.

Would you like the system to email or text the scientist when an anomaly occurs?

Would you like the system to generate these types of visual graphs; line, bar, pie graphs?

What type of information will the anomaly contain for instance the author, timestamp, patterns and scope, graph?

Will the system analyze multiple sensors at the same time, if so how should we handle different units of measurements, for example (temperature vs. wind speed). If multiple sensors are allowed will there be a maximum number of sensors.

Will the unit of measurement be set by the user, sensor, or data file.

Will the user be capable of exporting the data file from the system, if so what format should it be exported in (text, comma split delimited, or a user specified).

Will the user be required to import their data from a predefined database or can they import it from an external location such as usb.

When guiding the user would you like a wizard or small popups over the name of items describing the purpose of each item?

Will this system handle the administration of the database, or will it be handled by a separate system?

Can any guest user create a login account or must they be invited by a current user.

Thank you again for your time and assistance. We look forward to hearing your response.