

**sdmay18-23: Internet of Things, Data Analytics for Snow Plow Truck-Data Live**

Week 12 Report

January 27 – February 9

**Team Members**Alan Peine — *Git Master*Colin Heinrichs — *Test Engineer*Evan Warych — *Report Manager*Michael Entin — *Meeting Reporter*Zachary Wilson — *Meeting Facilitator/Point of Contact***Summary of Progress this Report**

During this development cycle, progress was heavily focused on the data ingestion service. As the first step of the chain toward providing the website, the intake of data is going to be crucial and very efficient. Changes were made to continue the goals of reading and converting the logged data from trucks. Along with that, we received one of the boxes that are outfitted on the snowplows so we can test some changes to the data loggers to send additional information such as the vehicle ID that will help with the organization of the data. On top of that, connections to the database were created and basic authorization to data was started on the web app.

**Pending Issues**

The main issues that arose throughout the development period and continues to possibly be an issue as it continues to be sorted out is the availability of the ftp site. It has been up and down by no fault of our client and has made the availability of data to analyze a struggle. This should be fixed very soon however.

As far as actual pending issues on the application, as previously stated it could possibly take a full rework of the data logger script to send the necessary additional data to the data ingestion service. This is currently being looked into. After that, the continuation of the flowing dummy data is another major goal.

**Plans for Upcoming Reporting Period**

The next period will again focus heavily on the ingestion of data, getting the data formatted correctly from there is the immediate goal. The total goal is to have a flow of data by the next reporting period. Additional goals include increased work on the web app mocks such as basic authorization logins.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Alexander Smola	N/A	N/A	50
Alan Peine	Data Ingestion Refactoring	9	77
Colin Heinrichs	Set up Continuous Deploy service to our servers	7	71

Evan Warych	Started spring security integration	6	67
Michael Entin	Changes to database structure	8	79
Zachary Wilson	Data ingestion and front end work	10	71