

Project Title: Development of Open-Source Software for Electronic Monitoring Data Review

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Recipient: Saltwater Inc.

Project Description: Develop a foundation of open-source software for review of electronic monitoring data. Project will use an iterative design process to expand on the capabilities of existing review software in order to create freely available software that can be easily adapted to different fisheries.

Project Location: Nationwide

Abstract: Saltwater Inc. will develop a software platform for data review that is based on open-source code and can be adapted to the specific needs of different fisheries. A key constraint to implementation of electronic monitoring in many fisheries is the cost of data review. By developing open-source electronic monitoring software, the grantees will be able to avoid the limitations and expense associated with proprietary code, encourage collaboration and innovation, and speed the development of cost effective review solutions. To ensure that the software platform meets real needs, Saltwater Inc. will solicit input from stakeholders involved in a variety of electronic monitoring efforts. These stakeholders will include a mix of agency personnel, private individuals or companies, industry groups, and researchers. The data needs of different fisheries have common elements, but also some specific requirements, and the stakeholders will help prioritize the most critical functions for the data review platform. The software will be designed to be compatible with an array of video formats, and specifications for sensor data formats will be published to encourage interoperability between onboard systems. Over the project time frame of one year, the software platform will be developed, tested, and debugged. The finished source code and project documentation will be made freely available to use “as is” or to adapt for specific data needs.