



PACIFIC STATES MARINE FISHERIES COMMISSION
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Request for Proposals

Pacific States Marine Fisheries Commission – Pacific Islands Logit Integration

Actual Issue Date: **July 28, 2023**
Deadline for Submissions: **August 25, 2023**

“To promote the conservation, development and management of Pacific coast fishery resources through coordinated regional research, monitoring and utilization”

Schedule

July 28, 2023 Request for Proposal (RFP) issued and distributed

August 11, 2023 Deadline for written questions regarding this RFP

Please email questions to Michael_Arredondo@psmfc.org

August 15, 2023 Deadline for when responses to questions will be made available

Responses to questions will be posted on the Pacific States Marine Fisheries Commission RFP webpage.

August 25, 2023 Deadline for submission of proposals

Proposals need to be submitted by e-mail to:

Michael_Arredondo@psmfc.org

Subject line for submissions: *2023 Pacific Islands Logit Integration RFP*

Faxed and hard copy proposals **will not** be accepted.

Week of September 1, 2023 Proposal review and selection

Introduction

The Pacific States Marine Fisheries Commission (PSMFC) is currently seeking to contract an experienced vendor for a multi-faceted initiative aimed at the modernization of electronic reporting related to fisheries landings and sales within territorial waters managed by WPacFIN.

Our first requirement involves the integration of an established suite of applications (Catchit) with a new application (Logit) that has recently been introduced into production. The Catchit application suite, created a few years ago to assist with self-reporting, comprises multiple PWA applications, a web administration portal, and a public web dashboard. The Logit application, on the other hand, is a back-office web application designed for the entry of paper receipts for fish sales by territorial staff. There is significant shared data between the two applications. The integration process will necessitate the merging of the two databases into a unified one (with the Logit database serving as the foundation), and updating the relevant application APIs to interact with the new unified database. As part of this effort, the vendor is expected to address bugs in the Catchit applications, update the libraries and code, and develop the existing backlog of feature requests that have been identified for inclusion. For the Logit application, which has recently begun to be used in production by the territorial staff, the vendor is required to develop patches for any user-identified bugs, pending review by PSMFC/NOAA.

Our second objective requires the vendor to develop a comprehensive framework of developer tools, configurations, and documentation. This framework will enable swift application development for Single Page Apps (SPA) and Progressive Web Applications (PWAs) with a uniform, mobile-friendly UI that can support back-office desktop and public web applications. The framework should include developer tools to effortlessly bootstrap new applications, similar in functionality to 'npm create-react-app new-app.' The utilities provided by the framework should scaffold out a robust development environment that aligns with PSMFC's requirements. The utility should also offer options to customize the application scaffolding to fit specific project needs, like defining a PWA application, selecting a test suite, and integrating a unique authentication scheme.

Our third requirement entails the vendor's responsibility to manage and maintain the cloud resources utilized to support the applications. This includes configuration, deployment, security, and maintenance of all cloud resources necessary for the applications. The vendor will provide expert advice on the setup and deployment of cloud resources, ensuring a secure and cost-efficient environment.

The PSMFC will act as a third-party project manager and agent for NOAA Fisheries Pacific (NOAA). The vendor's responsibilities will include integrating the applications and building the developer framework, while PSMFC will oversee and manage data and source code. Although it is anticipated that PSMFC would continue to collaborate with the vendor for support and/or expansion to other platforms, PSMFC will reserve the right to maintain or expand the application independently upon completion of the contracted scope of work.

Background

In a strategic partnership with NOAA, PSMFC has assumed the responsibility for applications that have been developed to modernize fisheries data collection. These include PWA applications designed for self-reporting. The self-reporting application suite was launched several years ago and has not seen active development since then. The current initiative aims to consolidate various projects under one overarching structure. To unify these diverse applications, it is imperative to update the code bases, modify the APIs to accommodate different interfaces, and centralize data into a single repository.

NOAA has designated PSMFC as the primary entity responsible for the integration of the Catchit/Logit applications, data storage, and data distribution to territorial and federal agencies. Consequently, PSMFC is seeking a competent vendor to develop a robust developer tooling framework. PSMFC will be collaborating closely with NOAA to ensure that the developer tooling framework meets the requirements of both federal and territorial authorities. In addition to these responsibilities, PSMFC is also tasked with managing and maintaining the cloud resources needed to support these undertakings. As such, we are looking for a vendor capable of providing expertise in this area.

Scope of Work

The scope of work for the project is the integration of the Catchit and Logit applications, the development of a developer tooling framework MVP (minimum viable product), and support for the cloud resources used for these systems.

This effort has three primary targets to be considered a success.

- The final deliverable of fully integrated Catchit and Logit systems.
- A fully tested and documented MVP for developer tooling framework.
- A fully documented, secure and supported cloud infrastructure.

1. Catchit and Logit Systems

1.1. System Integration

- 1.1.1. The vendor will work with PSMFC to analyze and plan the database changes needed to migrate the Catchit data to the Logit database.
- 1.1.2. Development and execution of ETL strategy to populate the Logit database with data taken from Catchit, without any data loss.
- 1.1.3. A cutover strategy will be needed to deploy the integration with minimal impact on active users. (Minimal outages will be acceptable with proper notice and planning.)
- 1.1.4. The anticipated plan is that the two applications Catchit and Logit, will continue to maintain separate APIs. Because of the change to a single database source, changes to both APIs will be needed to facilitate the integration.

1.2. PWA (Catchit) Updates

- 1.2.1. Bring application code and libraries up-to-date. This suite of applications have not been under active development for over a year. The vendor will need to bring the applications up-to-date with the latest libraries and make any code changes necessary due to breaking changes.
- 1.2.2. A list of bug and feature requests have been collected. PSMFC will prioritize bugs and features to be applied to the applications to improve the users experience.
- 1.2.3. The authentication for the applications will need to be updated to make both operate under a single authentication scheme.

1.3. Confidentiality

- 1.3.1. Data collected by these systems include trip, sales, catch locations, and sales information.
- 1.3.2. Per federal fisheries requirements, a confidentiality agreement must be signed by the vendor to ensure complete confidentiality of all data collected as well as all data provided for lookup values, etc.
- 1.3.3. No copies of confidential data will be retained by the contractor without written consent of PSMFC.

2. Developer Tooling and Application Framework

- 2.1. Provide an automatic setup that scaffolds the “Hello World” project with all standard project modules. E.g., `npx create-nmfs-app` to allow for rapid creation of new projects.
- 2.2. Serve a “Hello World” project to the browser with hot and fast reloading, e.g., `npm run dev` for ease in debugging.
- 2.3. Provide the users an interface with the IndexedDB API for client-side storage and provide a “Hello World” template for lookup data and form storage, export, and transfer.
- 2.4. Provide a centralized location for configuration and enforcement of explicit definitions and data formatting. E.g., datetime formats, time zones, and coordinates and spatial data types and formats.
- 2.5. Provide a design system with UI components such as control libraries that meet Web Content Accessibility Guidelines 2.0 (WCAG 2.0) and standards for accessibility per Section 508 of the Rehabilitation Act. Section 508 requires federal agencies to ensure that their information and communication technology (ICT) is accessible to people with disabilities.
- 2.6. Provide a design system that allows for themes to ensure a consistent look and tone for projects being developed with this framework. Themes should be customizable depending on the project, but the default theme of the framework will use PSMFC/NOAA branding and style guide as its basis for UI components.
- 2.7. As a framework it will provide authorization and authentication API that can address various hosts types.
- 2.8. Minimum of 90% test coverage of all code, and all major components are meaningfully tested and passed before delivered to PSMFC.
- 2.9. User stories will be modified, added, retracted, or reprioritized by PSMFC/NOAA at any time, and NMFS expects that the user stories will be continuously refined during the software development lifecycle.

3. Maintenance/Support

- 3.1. PSMFC anticipates after the integration is completed and deployed to production, there will be requests for changes and the identification of bugs.
- 3.2. The vendor will include the resources to provide bug fixes and feature additions for at least three months beyond the production release.
- 3.3. The vendor will additionally provide the support resources necessary to monitor and fix any unanticipated outages for a period of six months beyond the production release of the integration effort.

4. Ownership

- 4.1. The final versions of the applications will be owned by PSMFC/NOAA. The vendor may adapt functionality of the products for use in other projects to sell to other clients, but PSMFC/NOAA will have the rights to the applications and all associated code such that they may be adapted and further developed independently.
- 4.2. All data maintained within the applications will be fully owned by PSMFC/NOAA. At the end of the project the vendor will need to delete or return any fisheries data.
- 4.3. The final version of the developer tooling framework will be owned by PSMFC/NOAA. PSMFC/NOAA reserves the right to open source the component libraries making it available to the public. With PSMFC/NOAA approval the vendor will also be granted the right to release an open source version of the library under an approved license agreement.
- 4.4. The vendor will help facilitate the migration of any/all code repositories from their current location to repositories owned by PSMFC. This will include the migration of any continuous integration (CI) processes so as to not break the existing application validation.

Anticipated Future Work

The current RFP seeks proposals to cover the scope of work described above. However, PSMFC anticipates further possible expansions:

5. Expansion of the developer tooling framework

- 5.1. The developer tooling framework will be expanded over time as needed utilities and configurations are identified.
- 5.2. Updates to existing component objects as new functionality is identified by users of the components.
- 5.3. Active maintenance of the documentation and developer tooling.
 - 5.3.1. With the tooling framework being the base starting point for future projects, it is important that all code dependencies are well maintained and that all implemented tests are passing.
- 5.4. Addition of utilities to help validate applications built using framework meet all mandated requirements, such as Section 508 compliance.

6. Apply developer tooling framework to Modernization of Existing Application

- 6.1. With the successful completion of the developer tooling framework, PSMFC anticipates applying its use to the development of an application to sunset an existing application that currently uses legacy technologies.

Contractor Qualifications

To successfully respond to this RFP, the vendor must:

- Demonstrate expert knowledge of systems integration. Specifically the ability to merge multiple databases without impacting the system functionality or loss of any data.
 - Knowledge of ETL process development using MySQL databases.
- Demonstrated ability to evaluate an existing system and determine the best approach to update the applications and platforms to the latest versions.
 - Knowledge of Javascript full stack development and support using Node.js, Express.js, React.js, PWA development.
 - Knowledge of the Javascript ORMs Prisma and Knex.js is required for the integration effort.
- Demonstrated experience in the design, development and implementation of a React.js developer tooling framework including comprehensive unit testing and full documentation.
- Demonstrate the ability to operate within an agile environment.
 - Provide feedback to PSMFC when a request would have a significant impact on the ability to complete the project.
 - Provide guidance on how to integrate unforeseen changes into the scope of the project, including identification of what tradeoffs can be made to accommodate identified change.
- Make vendor staff available to meet with PSMFC/NOAA staff online and with short notice, as needed. The stakeholders of this project fully expect to work with the vendor in a close and dynamic relationship to execute the goals of this RFP.

While not strictly required, it is preferred that the vendor is familiar with fisheries data.

Proposal Requirements and Scoring

Proposal Requirements

Proposer must submit the following information:

- **Experience:** Explain the qualifications of the company and its specialized experience and technical competencies that qualify it to meet the requirements described in the scope of work.
 - Please detail any work with fisheries data.

- Include any experience relevant to the Anticipated Future Work section.
- The Contractor must designate both a Project Manager and a Technical Lead as Key Personnel for this project. Senior-level developers with React experience are required for this project.
- **References:** A list of three clients and contact information for whom similar services have been provided. If you have references for work with fisheries data, please include.
- **Subcontractors:** A list of all, if any, third parties and/or subcontractors that the vendor intends to employ or may be connected with meeting the scope of work.
- **Technical Approach:** Describe your approach to meet the Scope of Work. Include description of:
 - Design and development approach and coordination with PSMFC.
 - Testing, deployment and documentation plans.
 - Cutover plan overview with deprecating Catchit database.
 - Potential for meeting the work described in Anticipated Future Work including:
 - Strategy for identifying the best component to add to meet the users needs.
 - Strategy to identify how to apply the new developer tooling framework to a new project to phase out a legacy application.
- **Cost Proposal:** Vendor must submit a budget for the scope of work described above. Including all items except for item 3: Maintenance/Support. Cost breakdowns for the Systems Integration effort and Developer tooling framework effort should be clearly identified. Separate from the total budget, the vendor should submit an hourly rate for bug patches, updates, maintenance and monitoring.
 - Maintenance and support.
 - This should break out the three months of developer support for bug fixes and feature requests after production release.
 - Break out the six months of systems support and maintenance after production release.

Scoring

- Experience (50 percent)
- Cost (30 percent)
- Technical Approach (20 percent)

Instructions, Conditions and Notices

QUESTIONS

Questions regarding this RFP shall be submitted via email no later than August 11, 2023 to:

Michael Arredondo, Pacific State Marine Fisheries
Commission Email: marredondo@psmfc.org

Responses to written question will be posted on the PSMFC website by August 15, 2023.

AMENDMENTS TO SOLICITATIONS

If this solicitation is amended, all terms and conditions that are not amended remain unchanged. Offerors shall acknowledge receipt of any amendment to this solicitation on offeror's proposal.

SUBMISSION OF PROPOSALS

Deadline for proposals is 5pm Pacific time on August 25, 2023.

Proposals must be submitted **as a single PDF via email** with “*2023 Pacific Islands Logit Integration RFP*” **in the subject line of the email to:**

Michael Arredondo <marredondo@psmfc.org>

The PSMFC reserves the right to consult with and to consider information from its own sources, including information from state and federal agencies regarding the applicant's prior performance or the status of outstanding investigations or warrants involving the applicant.

Late proposals: Any application received at the PSMFC office designated in the solicitation after the exact time specified for receipt to offers is “late” and will not be considered.

OFFER EXPIRATION DATE

Proposals in response to this solicitation will be valid for 30 days following the time specified for solicitation of offers (unless a different period is proposed by the offeror).

RESTRICTIONS ON DISCLOSURE AND USE OF INFORMATION

Offerors that include in their proposals data that they do not want disclosed to the public for any purposes, or used by the PSMFC except for evaluation purposes, shall mark the title page with the following legend: “This proposal includes data that shall not be disclosed outside the PSMFC and shall not be duplicated, used, or disclosed—in whole or in part—for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of – or in connection with – the submission of this data, the PSMFC shall have the right to duplicate, use, or disclose the data to the extent provided in the

resulting contract. This restriction does not limit the PSMFC's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]"; and Mark each sheet of data it wishes to restrict with the following legend: "Use of disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal".

CONTRACT AWARD

- The PSMFC intends to award a contract or contracts resulting from this solicitation to the responsible offeror(s) whose proposal(s) represent the best value after evaluating in accordance with the factors and sub-factors in the solicitation.
- The PSMFC may reject any or all of the proposals if such action is in the PSMFC's interest.
- The PSMFC may waive informalities and minor irregularities in proposals received.
- The PSMFC intends to evaluate proposals and award a contract without discussions with offerors. Therefore, the offeror's initial proposal should contain the offeror's best terms from a cost or price and technical standpoint. The PSMFC reserves the right to conduct discussions if the Program Manager later determines them to be necessary. If the Program Manager determines that the number of proposals that would otherwise be in the competitive range exceeds the number at which an efficient competition can be conducted, the Program Manager may limit the number of proposals in the competitive range to the greatest number that will permit an efficient competition among the most highly rated proposals.
- The PSMFC reserves the right to make an award on any item for a quantity less than a quantity offered, at the unit cost or price offered, unless the offer specifies otherwise in the proposal.
- The PSMFC reserves the right to make multiple awards if, after considering the additional administrative cost, it is in the PSMFC's best interest to do so.
- Exchanges with offerors after receipt of a proposal do not constitute a rejection or counteroffer by the PSMFC.
- The PSMFC may determine that a proposal is unacceptable if the prices proposed are materially unbalanced between line items or subline items. Unbalanced prices exist when, despite an acceptable total evaluated price, the price of one or more contract line items is significantly overstated or

understated as indicated by the application of cost or price analysis techniques. A proposal may be rejected if the Program Manager determines that the lack of balances poses an unacceptable risk to the PSMFC.

- If a cost realism analysis is performed, cost realism may be considered by the source selection authority in evaluating performance or schedule risk.
- A written award or acceptance of proposal mailed or otherwise furnished to the successful offeror within the time specified in the proposal shall result in a binding contract without further action by either party.
- The PSMFC may disclose the following information in post award debriefings to other offerors:
 - The overall evaluated cost of price and technical rating of the successful offeror;
 - The overall ranking of all offerors, when any ranking was developed by the agency during source selection; and
 - A summary of the rationale for award.