



**TO ALL COMMISSION MEMBERS, COOPERATING NON-MEMBERS,  
PARTICIPATING TERRITORIES AND OBSERVERS**

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**Tender for an Assessment of FLUX Implementation for the WCPFC Secretariat**

Dear All,

Please find attached a tender document for a short-term consultancy to conduct an assessment of FLUX Implementation for the WCPFC Secretariat in Pohnpei.

The deadline for applications is Monday, 6 November 2023. Your assistance in sharing this opportunity with relevant interested parties is appreciated. You may also reference this information under the “Opportunities” section on the WCPFC website ([www.wcpfc.int](http://www.wcpfc.int)).

Yours sincerely,



Rhea Moss-Christian  
**EXECUTIVE DIRECTOR**



## Consultancy

### Assessment of FLUX Implementation

The Western and Central Pacific Fisheries Commission was established to ensure, through effective management, the long-term conservation and sustainable use of highly migratory fish stocks in the western and central Pacific Ocean. The Commission's Secretariat, located in Pohnpei, Federated States of Micronesia, invites applications for the following scope of work:

- Consider options for hosting a WCPFC FLUX node and provide recommendations on the most appropriate hosting arrangements.
- Provide a recommended architecture for the interface between the FLUX node and the current e-reporting APIs, taking into account the likely endpoints for FLUX data being submitted to WCPFC.
- Conduct a gap analysis of the data requirements for the catch and effort reporting environment of WCPFC (via TUFMAN2) and the FLUX P1000-3 Fishing Activity domain.
- Provide a cost estimate for the development of an API bridge (FLUX -> WCPFC) along with a guiding estimate for developing the interface for additional APIs.
- Provide an indicative guide and the expected ongoing maintenance for supporting the FLUX node and the API bridging software.

Applicants are required to have a proven record of achievements that demonstrates their ability to successfully undertake the consultancy. The terms of reference for the consultancy can be found at <http://www.wcpfc.int/vacancies-opportunities>. If needed, additional information can be obtained from the Finance and Administration Manager (Aaron Nighswander) at [Aaron.Nighswander@wcpfc.int](mailto:Aaron.Nighswander@wcpfc.int).

The total value of the consultancy is €24,000 Euro. The application for the consultancy will close on Monday **6 November 2023**. Applications should be submitted to [Aaron.Nighswander@wcpfc.int](mailto:Aaron.Nighswander@wcpfc.int).



## Terms of Reference

### Assessment of FLUX Implementation

The WCPFC Secretariat has been tasked with conducting an analysis of the technical feasibility of implementing a FLUX node for data exchange with the European Union. To conduct this analysis the WCPFC Secretariat is seeking the services of a FLUX specialist to create a report that outlines the technical, financial, and human resource implications of introducing a FLUX node into the WCPFC ICT infrastructure for data exchange.

WCPFC have developed a number of e-reporting APIs that include vessel characteristics for the Record of Fishing Vessels (RFV), transshipment activities (TSER), and Catch and Effort logbooks (TUFMAN2).

To implement a FLUX node for receiving data from the EU, it is envisioned that the Secretariat would need to incorporate a FLUX node for WCPFC, either on premise or cloud hosted, and develop a bridging interface between the FLUX node and the existing JSON e-reporting APIs.

The FLUX node and the bridge software would need to implement a basic level of automated monitoring to provide an alert to WCPFC staff when there is a failure of either the FLUX node or the software bridge.

In close consultation with the WCPFC Secretariat, a consultant is being sought to:

1. Consider options for hosting a WCPFC FLUX node and provide recommendations on the most appropriate hosting arrangements;
2. Taking into account the likely endpoints for FLUX data being submitted to WCPFC, provide a recommended architecture for the interface between the FLUX node and the current e-reporting APIs;
3. Conduct a gap analysis of the data requirements for the catch and effort reporting environment of WCPFC (via TUFMAN2) and the FLUX P1000-3 Fishing Activity domain;
4. Provide a cost estimate for the development of an API bridge (FLUX -> WCPFC) along with a guiding estimate for developing the interface for additional APIs; and
5. Provide an indicative guide and the expected ongoing maintenance for supporting the FLUX node and the API bridging software.