

# WESTERN AND CENTRAL PACIFIC FISHERIES COMMISSION

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[www.wcpfc.int](http://www.wcpfc.int)

## INFORMATION PACKAGE

### WCPFC Vessel Monitoring System Security Audit

#### INTRODUCTION

The Convention on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean (Convention) entered into force in June 2004 creating one of the first regional fisheries management organizations to be established since the 1995 adoption of the United Nations Fish Stocks Agreement (Agreement). The objective of the Convention for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean, and hence the Western and Central Pacific Fisheries Commission (WCPFC), is to ensure the long-term conservation and sustainable use of highly migratory fish stocks in the Convention Area in accordance with the 1982 United Nations Convention on the Law of the Sea (UNCLOS) and the Agreement. The WCPFC currently has 25 Members, seven Cooperating Non-Members, three Pacific Overseas Territories from each of France and the US, and Tokelau are included as Participating Territories within the Commission. Additional information concerning the WCPFC, including copies of recent decisions, is available from [www.wcpfc.int](http://www.wcpfc.int)

On the 1 April 2009, WCPFC began monitoring high seas positions of fishing vessels authorized to fish for highly migratory fish stocks in the WCPFC Convention Area, in support of the conservation and management measures in place for these valuable, mainly tuna, stocks. The 5th Regular Session of the Commission (WCPFC5) held at Busan, Korea in December 2008 approved the standards, specifications and procedures for the operation of the WCPFC's near-real time, satellite-based vessel monitoring system (WCPFC VMS). The "WCPFC VMS" uses the infrastructure managed by the Pacific Islands Forum Fisheries Agency (FFA) which also supports a VMS for FFA members in their national waters. WCPFC5 endorsed a Service Level Agreement between the WCPFC and FFA regarding the FFA's support of the WCPFC VMS. The WCPFC VMS is an open architecture, integrated service that utilizes FFA-owned IT VMS infrastructure, software and services. It consists of the Sydney, Australia-based co-location services under an FFA contract with Macquarie Telecom Data Centre. The vessel position reporting to the WCPFC VMS varies from hourly to four-hourly intervals. Over 2,750 fishing vessels are being monitored in the high seas of the Convention area. The WCPFC Record of Fishing Vessels lists over 6,500 vessels, and it is expected that more of these fishing vessels will be reporting to the system in the near future.

## **OBJECTIVE**

To assess the current WCPFC VMS system and provide the most feasible options for operations with costs to meet current and future requirements

## **SCOPE OF WORK**

**The scope of work will focus on:**

### **Technical system requirements:**

- An assessment of security of the system, position data, and its transmission between all authorized sites
- Assessment of the existing VMS software applications to address current Commission needs,
- Assessment of existing system redundancy and recovery as a result of any failures with specific attention on the recovery procedures and the minimum window of downtime allowed before new vessel positions are lost while the system is still down

### **System redundancy requirements:**

- Assess two or three (maximum) alternative operational VMS applications, how each compares with the FFA VMS application and its suitability to address the known WCPFC VMS requirements
- Assess the VMS data redundancy options for each of the two or three alternative operational VMS applications

### **Contractual Arrangements**

- Cost effectiveness of current contractual and operational arrangements,
- Current procedural and operational requirements,
- Anticipated future operational requirements,

## **TERMS OF REFERENCE FOR THE CONSULTANCY**

- evaluate the administrative, technical, legal, and security systems that comprise the WCPFC VMS, including the service providers' agreements, response times and cost effectiveness, and make recommendations as to how these may be improved to more effectively meet the needs of its clients (CCMs);
- prioritise the implementation of any proposed improvements to the various components comprising the WCPFC VMS, including indicative costs and proposed implementation timeframes;

- reassess the current relevance and priorities of the original major issues (illegal fishing, and misreporting, under-reporting and non-reporting of catch data) as identified by CCMs;
- assess the effectiveness of current mechanisms and service provider responses for access to the WCPFC in- zone VMS data for CCMs, and provide options for enhancement;
- prepare a business and implementation plan for the proposed improvements to the various components comprising the WCPFC VMS, including the scope of work and estimated costs;

## **OUTPUTS**

Detailed report including options, recommendations, costs and implementation schedule for all tasks noted in the SCOPE OF WORK within two weeks of the completion of the field assessment

## **CONSULTANCY ATTRIBUTES**

The Consultant will need to demonstrate:

- a. A minimum of five years experience in the operations of vessel monitoring systems and registration of fishing vessels, preferably in the international context with an understanding of the need and abilities to harmonize systems, address security issues and handle high volumes of data flow and entry;
- b. Several years of data security auditing especially in comprehensive risk assessment of Information Technology vulnerabilities throughout an organization. This includes network infrastructure components such as data servers, workstations, networks, and routers

## **PROVISIONAL INDICATIVE SCHEDULE**

<b>Task</b>	<b>Time frame</b>
Advertise opportunity/Call for EOI	18 May 2010
Close of EOI and selection of consultants	10 June 2010
Draft consultancy report	1 August 2010
CCMs' review of the draft	15 August 2010
Final consultancy report	1 September 2010