TECHNICAL AND COMPLIANCE COMMITTEE
Fifth Regular Session
1-6 October 2009
Pohnpei, Federated States of Micronesia

ANNUAL REPORT FOR THE COMMISSION VMS

Introduction

1.   The Fifth Regular Session of the Commission (WCPFC5) held at Busan, Korea in December 2008 approved the standards, specifications and procedures (SSPs) for the operation of the Commission's near-real time satellite-based vessel monitoring system (Commission VMS) for all fishing vessels that fish for highly migratory fish stocks on the high seas within the WCPF Convention Area in accordance with paragraphs 7 and 9 of Conservation and Management Measure 2007-02 (CMM 2007-02). The Commission VMS was activated on 1 April 2009. The Commission has accepted an offer by the Pacific Islands Forum Fisheries Agency (FFA) to utilize FFA's existing infrastructure that supports the VMS for FFA members in their national waters (FFA VMS).

2.   Paragraph 7.3.9 of the SSPs requires, in part, the Secretariat to monitor and report annually to the TCC the performance of the Commission VMS and its application. This paper has been prepared in compliance with this requirement.

Commission VMS Database

3.   Paragraph 2.8 of the SSPs requires the Secretariat to administer a Commission VMS database. For each fishing vessel required to report the Commission VMS the flag CCM is required to submit all necessary data to complete its data file in the Commission's VMS database.

4.   On 2 February 2009 WCPFC Circular 2009/01 was sent to all WCPFC Official Contacts, requesting those CCMs responsible for vessels required to report to the Commission VMS to arrange for vessel owners/operators to complete in full a Vessel Tracking Agreement Form (VTAF) (see **Annex B of Attachment 2**) for each vessel and return it to the Secretariat. The VTAF is designed to collect the details of each vessel's Mobile Transceiver Unit (MTU)/Automatic Location Communicator (ALC) being used by vessels that will report to the Commission VMS, including those reporting through the FFA VMS. It also authorises the Secretariat to electronically monitor the unit and disseminate data from it in accordance with WCPFC policy.

5.   **Table 1** presents the number of VTAFs by CCM that have been received by the Secretariat since February 2009 and the number of vessels by flag in the Commission VMS database.

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[1] This revision relates to the insertion of a Vessel Deactivation Procedure in the draft set of Standard Operating Procedures appended at Attachment 2 of this paper.

Table 1 - Number of VTAFs provided by CCMs[2]

Flag	N°. Authorised Vessels	VTAFs Received	VMS Database[3]
Australia	124	1	1
Bahamas (Non CCM)	4	0	0
Belize	7	5	4
Cambodia (Non CCM)	5	0	3
Canada	2,884	0	0
China	328	207	214[4]
Chinese Taipei	1,968	793	758
Cook Islands	23	16	21
Ecuador (Non CCM)	7	2	7
El Salvador	2	1	1
Cyprus (EU)	2	0	2
France (EU)	20	0	0
Lithuania (EU)	12	0	1
Malta (EU)	3	0	2
Portugal (EU)	12	0	0
Spain (EU)	75	26	23
United Kingdom (EU)	1	0	0
Fiji	56	0	32
French Polynesia	95	0	0
Honduras (Non CCM)	1	0	1
Indonesia	496	3	1
Isle of Man (Non CCM)	1	0	0
Japan	1,581	748	539
Kiribati	33	3	28
Korea	276	125	137
Marshall Islands	24	0	24
Micronesia (Federated State of)	32	31	29
Netherlands Antilles (Non CCM)	3	0	0
New Caledonia	27	8	8
New Zealand	6	6	4
Panama (Non CCM)	98	4	46
Papua New Guinea	33	0	4
Philippines	524	1	34

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[2] This list includes 214 VTAFs for Argos MTUs that are not listed in the Commission VMS database.

[3] Comprises vessels activated by the WCPFC Secretariat plus vessels reporting to the FFA VMS that have high seas positions in the Commission VMS database.
[4] Includes vessels on the FFA Vessel Register that have not yet provided a VTAF.

Russian Federation (Non CCM)	10	0	0
Senegal	0	2	0
Sierra Leone (Non CCM)	2	0	1
Singapore (Non CCM)	13	0	5
Solomon Islands	4	0	1
St. Vincent (Non CCM)	1	0	0
Thailand (Non CCM)	5	2	3
Tonga	6	0	0
Tuvalu	2	3	2
USA	490	150	173
Vanuatu	82	71	76
Total	**9,378**	**2,207**	**2,185**

Outer Maritime Limits Data

6.   To assist in implementing the Commission VMS the Secretariat requires coastal States to provide the coordinates for their outer maritime limits within the Convention Area. WCPFC Circular 2009/01 requested CCMs to arrange for the provision of their respective outer maritime limits data to the Secretariat. CCMs that have responded positively to this request include Australia, Cook Islands, Nauru, New Zealand and the Philippines.

7.   The South Pacific Applied Geoscience Commission (SOPAC) has agreed to share with the WCPFC Secretariat the Pacific Islands' 200 nautical mile notional boundaries, the same data which was delivered to the FFA Secretariat in late 2008. This consists of publicly available data (UN), original FFA data and recently updated data from SOPAC's Maritime Boundaries Programme. This data describes the present state of the WCPFC Secretariat's data holdings on the geographical position of the 200nm outer limits for SOPAC member countries in WSG84 format.

Service Level Agreement with the FFA

8.   Paragraph 7.3.3 of the SSPs requires, in part, the Secretariat to develop and manage a service level agreement (SLA) with the FFA for provision of VMS services. This SLA was signed by the secretariats of the WCPFC and FFA in early December 2008. Since then the WCPFC Secretariat has met quarterly with the FFA Secretariat to monitor the delivery of SLA services in support of Commission VMS implementation.

Installation and Configuration of Client Terminals

9.   Under the SLA with the FFA regarding the Commission VMS the FFA Secretariat was required to provide five (5) client terminals to the Secretariat for the use of Commission VMS staff to securely view vessel positions on the high seas in the Convention Area. These client terminals were installed and configured at the WCPFC Secretariat in April 2009.

Implementation of Client Access

10.   The Commission VMS budget for 2009 provides for the activation of ten (10) CCM client access registrations to the Commission VMS as authorized users of this service. By early July 2009 six (6) CCMs had been granted client access to the Commission VMS, enabling them to view the positions of their respective authorized flag vessels in the Convention Area.

Negotiation of Contracts with Mobile Communications Service Providers

11.   Paragraph 7.3.5 of the SSPs requires the WCPFC Secretariat to enter into, and to maintain, direct contracts with mobile communications service providers for the provision of position (and other) data from the MTUs/ALCs to the Commission VMS. At the time of this paper's preparation the WCPFC Secretariat has entered into contracts with:

- Vizada – for Inmarsat DNID management; and

- Satcomms Australia - for Inmarsat C, D+ and Iridium services.

12.   The WCPFC Secretariat finalized contract negotiations with CLS Argos in early September 2009 for an initial six-month term.

Commission VMS Financial Report for April-August 2009

13.   A summary financial report for the Commission VMS covering the period 1 April to 31 August 2009 is appended at **Attachment 1**.

Elaboration of Standard Operating Procedures

14.   Paragraph 6.9 of the SSPs states that a set of Standard Operating Procedures (SOPs), elaborated by the Secretariat, and subject to approval by the Commission on the recommendation of the TCC, will be developed to deal with all operational anomalies of the VMS. A draft set of SOPs is appended at **Attachment 2**.

Preparation of Initial List of Approved ALCs

15.   Paragraph 2.6 of the SSPs states that in preparing the initial list of approved ALCs, the WCPFC Secretariat will take into account lists approved by existing regional and sub-regional VMS programmes and lists approved by CCMs. Paragraph 7.3.7 of the SSPs requires the WCPFC Secretariat to administer the list of ALCs approved for use in the Commission VMS. In June 2009 the WCPFC Secretariat prepared an initial list of approved ALCs and posted it on the WPCFC website. An updated list is appended at **Attachment 3**.

ALCs Comply with WCPFC standards

16.   Paragraphs 2.9 and 2.13 of the SSPs state that CCMs are to carry out a periodic audit of a representative sample of installed ALCs. The results of these audits will be provided to the Commission by CCMs in the Part 2 component of their respective annual report to the Commission and those results compiled by the Secretariat into a VMS Audit Report Document. At the time of preparation of this paper no audit reports had been included in Part 2 Annual Reports received by the Secretariat.

Preparation of a List of Non-Compliant ALCs

17.   Paragraph 7.3.10 of the SSPs state that the Secretariat will include in its annual report (6.3.9) on the operations of the Commission's VMS to the TCC, all details for non-compliant ALCs detected in the previous 12 months. The TCC may recommend appropriate penalties or sanctions to the Commission as a means of deterring non-compliance. The WCPFC Secretariat is able to report that no non-compliant ALCs have been detected during the period that the Commission VMS has been operational.

Log of manual reporting

18.   The Secretariat maintains a log of all vessels placed on manual reporting consistent with paragraph 5.6 of the SSPs. The current log is appended at **Attachment 4**.

Commission VMS Security and Data Integrity

19.   Paragraph 7.3.2 of the SSPs requires the WCPFC Secretariat to provide a stable, reliable, fully maintained and supported Commission VMS that conforms to the security standards set out in the Commission's ISP. The WCPFC Secretariat is able to report that the Commission VMS is stable, reliable, fully maintained and supported, and conforms to the security standards set out in the Commission's ISP.

20.   Paragraph 6.10 of the SSPs states that the integrity of the Secretariat's VMS data will be verified annually by qualified personnel, exterior to Commission Secretariat staff. The WCPFC Secretariat will arrange for an independent audit of Commission VMS data during 2010 subject to the availability of funds for this purpose.

Review of CMM 2007-02

21.   Para. 10 of CMM 2007-02 [Commission Vessel Monitoring System] states,

> *"After two years of implementation, the Commission shall conduct a review of the implementation of this Conservation and Management Measure and consider further improvements to the system as required."*

22.   A review of CMM 2007-02 will take place in 2011.

Advice and Recommendations

23.   TCC5 is invited to provide advice and recommendations to the Commission on:

   a)   the performance of the Commission VMS since its activation, in accordance with the requirements set out in the SSPs; and

   b)   the draft Commission VMS Standard Operating Procedures.

Summary Financial Report for the Commission VMS, 1 April 1 - 31 August 2009

Commission VMS Setup Costs

Commission VMS Setup	Amount (US$)
Budgeted Amount	93,290
Expenditure	63,272
Unspent	30,018[5]

Commission VMS Operating Costs

Commission VMS Operating	Amount (US$)
Budgeted Amount	382,700
Unspent from Setup	30,018
Sub-Total	412,718
Expenditure (April-August)	465,627
Total	(52,909)[6]

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[5] Transfer to VMS Operating Costs approved by WCPFC Executive Director.
[6] Over-expenditure financed by funds transferred from Commission Working Capital Fund, as approved by WCPFC5.

Draft Commission VMS Standard Operating Procedures (SOPs)

1. Introduction

Purpose:	Establish guidelines and procedures for the operation of the Commission Vessel Monitoring System (Commission VMS).
Personnel Concerned:	All WCPFC Secretariat staff
Originator:	Manager VMS
Distribution:	MCS personnel
Authorised by:	Compliance Manager
Effective Date:	1 April 2009

2. Overview

The WCPFC operates a Vessel Monitoring System (Commission VMS) to assist in the management and conservation of highly migratory fish stocks in the Western and Central Pacific Ocean.

The Commission VMS requires the use of Mobile Transceiver Units (MTUs)/Automatic Location Communicators (ALCs) that have been typed-approved by CCMs and meet the minimum standards set out in Annex 1 of CMM 2007-02.

2.1 Purpose of these Standard Operating Procedures

These standard operating procedures (SOPs) have been developed to provide uniform guidance for Commission personnel in the management and operation of the Commission VMS.

2.2 Commission Decisions and Guidelines governing the Commission VMS

a) WCPFC Information Security Policy – December 2007

b) WCPFC VMS Security Guidelines – January 2009

c) WCPFC Administrative Guidelines and Procedures Manual – September 2009 (draft)

2.3 Those responsible for administering the Commission VMS and their responsibilities

The Monitoring, Control and Surveillance (MCS) section of the WCPFC Secretariat is responsible for the management and operation of the Commission VMS. In that capacity the MCS Section:

a) provides oversight and management of all aspects of the Commission VMS;

b) provides oversight of the process to obtain quality technical advice from satellite and internet service providers and contractors;

c) take responsibility for the day-to-day operation of the Commission VMS; and

d) maintains the Commission VMS, monitors its state and provides regular reports on these matters to the Executive Director.

2.4 MCS Section responsibilities

The MCS Section:

a) oversees the operations of the Commission VMS including operation of the WCPFC Record of Fishing Vessels;

b) administers the SLA with FFA for the provision of VMS services to the Commission;

c) administers the Secretariat's responsibilities in respect of the SSPs for the Commission's VMS;

d) liaises closely with the VMS Manager at the FFA Secretariat on matters relating to Commission VMS data and its transmission to the WCPFC Secretariat;

e) Manages VMS data in conformity with the Commission's ISP and Rules and Procedures for the Protection of, Access to and Dissemination of Data Compiled by the Commission;

f) oversees the requirements of the Commission VMS and provides advice to the Executive Director on its effective utilization to support core activities at the WCPFC Secretariat;

g) manages the day-to-day operations of the WCPFC Secretariat's satellite network and associated equipment at a level required to support the Commission VMS;

h) manages and contributes to the design and implementation of relevant training programmes relating to Commission VMS systems for the benefit of WCPFC Secretariat staff;

i) collaborates with relevant WCPFC Secretariat staff and the FFA Secretariat to test new aspects of the Commission VMS;

j) monitors the day-to-day operations of the Commission VMS;

k) liaises closely with the ICT Manager at the WCPFC Secretariat on technical matters relating to the operation of the Commission VMS; and

l) acts as a point of contact for all CCM-related Commission VMS inquiries and for dissemination of relevant information such as Commission VMS Guidelines and related material.

2.5 Availability of Commission VMS services

Commission VMS Services (as listed above) are available to all CCMs.

2.6 Commission VMS Services available from the WCPFC Secretariat

The WCPFC Secretariat provides the following technical assistance to CCMs:

a) technical assistance on the Commission VMS.

b) technical guidance on development and enhancement of the Commission VMS.

3. VMS Software Applications

3.1 SmartTrack TrackExplorer

SmartTrack TrackExplorer is a powerful and flexible tool for utilizing satellite information to monitor the activity of fishing fleets. Each vessel is fitted with an MTU/ALC so that its position and movement can be tracked on a computer screen against a background map.

A TrackExplorer window provides a comprehensive range of tools for working with the map and the fishing vessels. It can be used to generate current and historical position data for vessels of interest, and view animations of past tracks.

3.2 Manual Reporting

Vessels typically report their positions automatically. The Commission VMS also has a facility to enter sightings or manual positions that can then be compared with the automatically received locations from MTUs/ALCs.

Vessel positions gathered by observers, surveillance aircraft or other vessels can be entered into the "sightings" system for analysis.

3.3 Alerts

Alerts are generated in relation to significant vessel activities or events. Almost any activity on the system can be configured to trigger an alert.

The Commission VMS includes an automated alert to report when vessels enter or exit the high seas of the WCPFC Convention Area.

Alerts are sent to relevant officers by e-mail or SMS.

Alerts generated by the system include:
   a) Area.Entry.International Waters (HS);
   b) Area.Exit.International Waters (HS);
   c) Overdue.04:00;
   d) Position.Power Off; and
   e) Position.Power On.

4. Operational Procedures

4.1 Secretariat Office Procedures

Refer to Section 9 "Office Procedures" of the draft WCPFC Administrative Guidelines and Procedures Manual appended at **Annex A**.

4.2 VMS Client User Access

The Manager VMS, after consultation with the Compliance Manager, can provide user access to the Commission VMS to an individual user.

The Commission VMS is configured so that each user has a unique login ID and password which can be changed at the discretion of the user. The system forces a change of password at intervals not exceeding 40 days. A password must consist of at least eight alpha-numeric characters and must be different from previous passwords and ID. Each user is responsible for their respective ID and password. If a user believes access has been gained through illegal use of his/her password or the user has forgotten his/her password, the Manager VMS must be notified immediately.

For further information, please refer to the WCPFC Security Guidelines located on the Secretariat's network drive.

4.3 Vessel Tracking Agreement Form

For each fishing vessel that is required to report to the Commission VMS the flag CCM will submit all necessary data indicated in the Vessel Tracking Agreement Form (VTAF). A copy of the VTAF is appended at **Annex B**.

The following procedures are to be followed when a VTAF is received by the Commission from a CCM.

   1. Acknowledge receipt of the VTAF by e-mail to the CCM official who sent it.

   2. Check that the VTAF is completed correctly. An incomplete VTAF should be referred back to the CCM official who sent it.

   3. Check that the MTU/ALC described in the VTAF is type approved by the CCM. If not, advise the CCM official accordingly.

4. If the MTU is type approved by the CCM then check against the FFA Vessel Register to determine if the vessel is listed. If it is listed then no further action required. The vessel will be monitored when it enters the high seas of the WCPFC Convention Area.

5. If the vessel is not listed on the FFA Vessel Register then its MTU/ALC must be activated to report directly to the Commission VMS.

4.4 Vessel Activation

Vessel Activation costs USD$200 per vessel. On receipt of a completed VTAF the vessel should be checked against the FFA Vessel Register available on the FFA Secretariat website at **www.ffa.int/node/42**

4.5 Vessel activation procedure

Submit to the FFA Secretariat for vessel activation on the Commission VMS the following information:
   a) VRID – Vessel Register ID;
   b) Vessel Name – in English;
   c) Country Registration Number;
   d) IRCS – International Radio Call Sign;
   e) Vessel Type (e.g. longline);
   f) Flag – full name, not flag code;
   g) Vessel length (in metres);
   h) GRT – Gross Registered Tonnage of the vessel;
   i) MTU/ALC Manufacturer (e.g. Thrane & Thrane);
   j) MTU/ALC Model (e.g. TT-3022D);
   k) MTU/ALC software version (if provided);
   l) MTU/ALC communication ID (e.g. IMN: 450 360 120);
   m) MTU/ALC Serial number.

The FFA Secretariat will update the vessel table in the VMS database and activate the vessel on the system.

The FFA Secretariat will then advise if activation is successful or not.

If activation was not successful then advise CCM of the unsuccessful activation attempt.

Request the CCM official to check the vessel's MTU/ALC and rectify any anomalies with the MTU/ALC.

On receipt of the advice by the CCM that the MTU/ALC is ready for a second attempt of activation, activate the vessel on the system again.

If the MTU/ALC activation fails on the second attempt, notify the CCM and place the vessel on manual reporting at four (4) hourly intervals until the MTU/ALC can be activated to report automatically to the Commission VMS.

4.6 Vessel deactivation procedure

Deactivation of a vessel costs USD$50.

Submit to the FFA Secretariat for vessel deactivation on the Commission VMS the following information:
   a) VRID – Vessel Register ID;
   b) Vessel Name – in English;
   c) Country Registration Number;
   d) IRCS – International Radio Call Sign;

e) Vessel Type (e.g. longline);
f) Flag – full name, not flag code;
g) Vessel length (in metres);
h) GRT – Gross Registered Tonnage of the vessel;
i) MTU/ALC Manufacturer (e.g. Thrane & Thrane);
j) MTU/ALC Model (e.g. TT-3022D);
k) MTU/ALC software version (if provided);
l) MTU/ALC communication ID (e.g. IMN: 450 360 120);
m) MTU/ALC Serial number.

The FFA Secretariat will delete the vessel from the VMS database and deactivate the vessel on the system.

The FFA Secretariat will then advise whether or not the deactivation is successful.

If the deactivation was not successful then request the MCSP to deactivate the vessel from its system.

4.7   Reports

VMS Operations Officers are required to produce weekly and monthly reports of vessel activities on the Commission VMS.

A weekly report includes information on:
- count of daily position reports by vessel;
- number of vessels reporting versus non-reporting;
- number of vessels reporting directly to the Commission VMS and vessels reporting via FFA VMS;
- Vessel status – Normal, Shut down, Manual reporting etc.

A monthly report includes:
- number of vessel activations during the month;
- number of vessels reporting directly to the Commission VMS and vessels reporting via FFA VMS;
- number of vessels reporting versus non-reporting;
- number of days a vessel spends in the high seas by month;
- estimated cost of reports by month.

The Compliance Manager may request additional ad-hoc reports to be provided.

These reports are to be produced in MS Excel and MS Word in accordance with the Administrative Guidelines and Procedures Manual.

4.8   Manual Reports

In the event of non-reception of two consecutive, programmed high seas VMS positions, and where the Secretariat has exhausted all reasonable steps to re-establish normal automatic reception of VMS positions the Secretariat shall inform the vessel's flag State CCM and the vessel Master.

From the time of transmission of this communication to the CCM, the vessel Master shall be required to take immediate steps to re-establish automatic reporting and in any event within 30 days or at its first port of call if less than 30 days.

During this period the vessel shall be required to report its position manually to the Secretariat every 4 hours. The manual report will consist of the following:
- Vessel Name

- IRCS
- UTC Date (dd-mm-yy)
- UTC Time 24 hour format (hh:mm:ss)
- Latitude (in degrees Minutes, Seconds N or S)
- Longitude (in degrees Minutes, Seconds E or W)
- Course
- Speed (in Knots)
- Activity at the time of report. (e.g. Fishing, in port etc.)

In cases where automatic reporting has not been re-established within 30 days the CCM shall order the vessel to cease fishing, stow all fishing gear and return to port.

The vessel may recommence fishing on the high seas only when the MTU/ALC has been confirmed as operational by the WCPFC Secretariat following the flag State CCM informing the Secretariat that the vessel's automatic reporting complies with the regulations established in the Commission VMS Standards, Specifications and Procedures (SSPs).

4.9   Commission VMS Helpdesk Support

Commission VMS Helpdesk Support is provided by the FFA Secretariat 24 hours a day, seven days a week.

Helpdesk support can be obtained by contacting:

Phone: +677 24969

E-mail: vms@ffa.int

Officers requesting Helpdesk support must record the nature of the request in the Incident Report Log located on **S:\MCS\VMS\Helpdesk Support**.

CMMs requesting Commission VMS assistance must log calls on the WCPFC Helpdesk located on the WCPFC website.

EXTRACT FROM DRAFT WCPFC ADMINISTRATIVE GUIDELINES AND PROCEDURES MANUAL

9. OFFICE PROCEDURES

9.7 Security

9.7.1 KEYS, PASSWORDS, COMBINATIONS, PHYSICAL ACCESS

a) Staff will be provided with only the keys, passwords and combinations required for them to undertake their direct work functions and access recreational facilities.

b) A key register is maintained by the Officer Manager as well as secure storage of spare keys.

c) Staff are responsible for the integrity of their workplace security and common entry and exit doors. Office doors should be locked after hours when staff are away from their workplaces as well as windows. Doors other than the main entry door should be locked when not in immediate use.

d) Staff are to check their rooms and the premises as they leave the main office or any of the other buildings to ensure all windows and doors are properly secured. Special checks at the end of each work day will be undertaken by the Executive Assistant and Office Manager.

e) Keys, passwords and combinations are to be kept secure.

f) Visitors to the Commission are required to register at reception and be issued with a visitor's tag. Visitors, including family members are not to be permitted to move around the building unescorted.

9.7.2 E-SECURITY

The primary objective of e-security (electronic or online cyber security) is to have available at all times, appropriate measures to protect the Secretariat's corporate network and shared resources, safeguard electronic data/information and their exchange whether stored on the live website or in-house Sharepoint and corporate databases, electronic mail stores, and also data access and dissemination. The realization of the Commission's e-security portfolio is 'work currently in progress', moving forward in parallel with the current activities on developing the Secretariat's corporate network, hardware and software portfolio; data management priorities initially focused on business data for the 'WCPFC Record of Fishing Vessels', Commission Vessel Monitoring System and Regional Observer Programme; and the Commission's public website at http://www.wcpfc.int.

E-security procedures are currently being developed based on the following key guidelines:

a) Establishing adequate disaster recovery plan and procedures - currently in progress.

b) Prevention of network compromise - current procedures in place include:

- Only authorized users have access to the corporate network with 'strong password' policy in place. For the live website, all authorized users have assigned roles with pre-defined security levels.

- All corporate servers protected by proven firewall, antivirus and anti-spam solutions with real-time update policies activated. All network devices protected by anti-virus with live electronic updates.

- Logs of key software updates, mail protection (anti-spam), anti-virus, Internet and network events, together with special event alert monitors allow administrators to address any problem issues before they happen.

- Appropriate service level agreements (SLAs) are in place for outsourced support of critical systems and applications.

c) Prevention of data theft:

- Procedures to define 'acceptable mobile device for WCPFC use' and restriction on their use currently in progress.

- Automated procedures to keep all approved software 'up-to-date' implemented.

- Staff training on prevention of data theft is an on-going activity.

d) Prevention of data loss:

- An enterprise backup and recovery solution is in place with full backups of business data run daily, Monday to Friday, and stored offsite.

- Staff training on storage of important business data in public folders or shared folders which get backed up is an on-going activity.

e) Minimize downtime and negative impact from 'denial of service' (DoS) attacks:

- DoS is hard to prevent but its negative impact can be minimized and this is mainly to do with the Commission's public website hosted externally and Internet connections in its Pohnpei headquarters. Adequate steps have been taken to address current threats.

On completion. Please return this Agreement form to:
Fax: **+691 320-1108** *or* *Email: contact.vms@wcpfc.int*
Mail: **Western and Central Pacific Fisheries Commission**
PO Box 2356
Kolonia, Pohnpei State
Federated States of Micronesia 96941

Western and
Central Pacific
Fisheries
Commission

Vessel Tracking Agreement Form

VESSEL DETAILS

Vessel Name: _____	International Radio Callsign (IRCS): _____
Country of Registration: _____	Country Registration Number: _____
Vessel Type: _____	Home Port: _____

VESSEL CONTACT DETAILS

Name: _____	
Address _____	Phone Number: _____
_____	Cell Phone / Satphone: _____
_____	Email Address _____
_____	Fax Number: _____

MOBILE TRANSCEIVER UNIT (MTU)/AUTOMATIC LOCATION COMMUNICATOR (ALC)

Manufacturer: _____	Model: _____
Software Version N°. _____	Serial Number: _____
Mobile Number: _____	Name of MCSP: _____
	MCSP - Mobile Communications Service Provider

INSTALLATION CERTIFICATION (to be completed by the installer)

What Type Approval standard does the MTU/ALC comply with? _____ _____		Installation done on: _/_/_ by: *(dd/mm/yyyy)*
		Name (Print) _____
MTU/ALC fitted according the manufacturer's guidelines:	**YES / NO**	Signature: _____
MTU/ALC has been commissioned according to MCSP and manufacturer's specifications:	**YES / NO**	Company: _____
		Phone Contact: _____
MTU is in operation continuously:	**YES / NO**	

AUTHORISATION

I _____, the owner of the MTU/ALC described above hereby authorise the WCPFC
(Print Name)
Secretariat to electronically monitor the unit, and disseminate data from it, in accordance with WCPFC policy.

Signature: _____   Date: _____

MTU/ALC Type Approval list as provided by CCMs
10 July 2009

CCMs Type Approved ALC/MTU							
			Chinese Taipei	FFA	Japan	New Zealand	USA
Service	**System Brand**	**Model**					
Inmarsat C	Anritsu	RSS405A			√		
Inmarsat C	Furuno	Felcom 10			√		
Inmarsat C	Furuno	Felcom 11			√		
Inmarsat C	Furuno	Felcom 12	√		√		
Inmarsat C	Furuno	Felcom 13			√		
Inmarsat C	Furuno	Felcom 15		√	√		
Inmarsat C	Furuno	Felcom 16		√	√	√	
Inmarsat C	JRC	JUE-75C		√	√		
Inmarsat C	JRC	JUE-85			√		
Inmarsat C	JRC	JUE-95VM		√	√		
Inmarsat C	JRC	JUE-95LT			√		
Inmarsat C	Thrane & Thrane	TT-3020B				√	
Inmarsat C	Thrane & Thrane	TT-3020C	√		√		
Inmarsat C	Thrane & Thrane	TT-3022D	√	√	√	√	√
Inmarsat C	Thrane & Thrane	TT-3026S	√	√	√	√	√
Inmarsat C	Thrane & Thrane	TT-3026D		√			
Inmarsat C	Trimble	TNL7001	√	√	√	√	
Inmarsat C	Trimble	TNL7005	√	√			
Inmarsat C	Sailor	H1622D		√			
CLS ARGOS	ARGOS	MAR-GE	√		√		
CLS ARGOS	ARGOS	MAR-GE V2	√		√		
CLS ARGOS	ARGOS	FVT	√				
CLS America	Thorium	VMS TST-100					√
Iridium	Faria "Watchdog"	750VMS		√			√

WCPFC VMS
Manual Position Reports
Vessel Listing
June 10, 2009

Western and Central Pacific Fisheries Commission

#	Vessel Name	IRCS	Gear Type	Flag	Last Report Date (VMS)	Date Resumed Report(VMS)	Initial Entry Date (Manual Report)	Stop Date (Manual Report)
1	MAN HSIANG HSIN	BK7394	Longline	TW	5/30/2009		6/9/2009	
2	SHENG I TSAI NO.368	BJ4889	Longline	TW	5/27/2009		6/9/2009	
4	SHIN TSAI FA NO.6	BJ4357	Longline	TW	5/26/2009	6/7/2009	6/6/2009	
5	CHIA MING SHENG	BK7153	Longline	TW	10/5/2009	6/8/2009	6/7/2009	
6	HUNG FA NO.128	BK7729	Longline	TW	5/14/2009		6/7/2009	
7	SHENG I TSAI NO.368	BJ4889	Longline	TW	5/27/2009		6/8/2009	
8	MAN HSIANG HSIN	BK7394	Longline	TW	5/30/2009		6/8/2009	
9	NO. 36 CHIUAN SHENG	BJ3592	Longline	TW	5/4/2009		6/8/2009	
10	UGAVO DOS	HC4593	Purse Seine	EC	5/23/2009	6/9/2009	5/23/2009	6/30/2009
11	JIA DER FA 6	BJ4415	Longline	TW	3/25/2009		7/15/2009	
12	XIN SHI JI 101	BZ 4UB	Purse Seine	CN	7/10/2009		7/24/2009	8/31/2009
13	CHIH CHI FENG NO.1	BJ4871	Longline	TW	7/23/2009		6/9/2009	
14	YU LONG No.2	BJ4874	Longline	TW	6/3/2009		7/23/2009	
15	GOLDEN NO.301	BJ4896	Longline	TW			7/23/2009	
16	DER HAE NO.2	BJ4980	Longline	TW	6/5/2009		7/23/2009	
17	JINN LONG YU	BK6263	Longline	TW	6/27/2009		7/22/2009	
18	JIN SHENQ LIH NO.33	BK7484	Longline	TW	6/22/2009		7/22/2009	
19	CHANG JAAN NO.1	YJSW2	Longline	VU	7/22/2009		7/22/2009	
20	HORNG SHYANG	BK7403	Longline		7/24/2009		8/4/2009	

Total Vessels: 20