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**Proposed enhancements to the Information Management System and WCPFC website  
2013-2015**

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**WCPFC9-2012-FAC6-16  
16 November 2012**

## **Executive Summary**

### Background to IMS development

1. The WCPFC Information Management System (IMS) is hosted internally within the Secretariat, using Microsoft SharePoint technology and an additional integrated SQL database. A SharePoint Intranet/Extranet Portal <http://intra.wcpfc.int> is provided to both the Secretariat staff and the authorized CCM users. A public access to query the RFV is also maintained. As mentioned, the two key current functions of the IMS include the management of RFV and the support for systematic recording of CMMs and tracking of relevant incoming/outgoing information flows (i.e. correspondence between CCMs and the Secretariat). During 2012, a new IMS database module for high seas transshipment monitoring was implemented, and a prototype for Annual Report Part 2 reporting was presented to TCC8. Currently MCS or compliance-based analytical work using the information contained within the IMS, including comparing and verifying reports from various WCPFC MCS information for the purpose of TCC Annual Reporting and Compliance Monitoring Reporting, has been completed by the Secretariat in an ad-hoc way, often through the use of WCPFC Word, Excel or Access spreadsheet/tables.

### TCC8 Recommendations

2. TCC8 has recommended to WCPFC9 that subject to available funds, the Secretariat continue work to develop its internal systems including the further development of an enhanced and integrated WCPFC Information Management System to improve the integration of WCPFC MCS information. Other priorities include delivering to Members an online interface for submitting their annual reports to the Commission on compliance and implementation of measures (Annual Report Part 2), as well as developing an internal online system to assist the Secretariat with generating draft Compliance Monitoring Reports for each CCM (currently 33).

### Potential costs of investment

3. This document provides a consolidated proposal for the enhancements that the Secretariat would like to undertake towards increasing the integration of MCS information within the IMS and for website development to support online reporting by CCMs of Annual Reports. This proposal provides preliminary budgetary estimates for nine proposed projects to enhance the WCPFC IMS and some limited development work for the WCPFC website in support of IMS enhancements and related-outputs. It is proposed that the IMS developments be done as discrete projects, and amounts of

\$135,000 and \$100,000 are being sought in 2013 and 2014 respectively (see Table 3). The projects and preliminary budgetary estimates were developed based on a quick business requirements analysis, undertaken by the Secretariat in conjunction with WCPFC IMS contractor *Taz-E* and in consultation with WCPFC website host *Eighty Options*. A more detailed requirements analysis including confirmation of the final budgetary estimates will be undertaken as part of the implementation at the commencement of each proposed project.

4. It should be noted that this budgetary proposal has been developed with the assumption that the GEF- *Areas Beyond National Jurisdiction (ABNJ) project* (WCPFC9-2012-24) will be approved. WCPFC has a proposed activity included in *Sub-component 2.E. Maximize MCS Tools Synergies*, for the design and implementation of IMS extension to support enhanced integration of WCPFC data sources including WCPFC VMS data, which are related to high seas transshipment notices and declarations, and High Seas Boarding and Inspection Reports. This proposed project is expected to provide supplementary funds to WCPFC over 2013-15 for three phases: an Internal Workshop; requirements analysis; and design and analysis phase.

5. Following the completion of this first stage of the IMS development (towards the end of 2014) and noting that a number of members are developing their own complementary national IMS, it would be useful to consider the establishment of a WCPFC member-based advisory group to provide some input on future developments and improvements to IMS.

#### Benefits of investment in IMS

##### *Secretariat*

- A system that captures members online Annual Report Part 2, in a format that is more easily incorporated for use in WCPFC IMS, including for development of draft Compliance Monitoring Reports;
- Commencing in 2013, a system for the Secretariat to more efficiently and accurately generate draft Compliance Monitoring Reports;
- A IMS with increasing levels of integration between WCPFC MCS information from 2013-2015;
- A process for more efficient publishing of WCPFC IMS hosted information, including Annual Report Part 2, dCMRs, summary lists and registers directly from the WCPFC IMS to the WCPFC website;
- Reduced duplication of efforts in the maintenance of accurate records on the WCPFC website, WCPFC meeting server and WCPFC IMS;
- Improved records and documentation for implementation of WCPFC data requests, including possible facilitation of access by CCMs to a range of non-public domain MCS information through an enhanced secure section of the WCPFC website;
- Enhanced capability for the Secretariat to respond to Members expectations for accurate and timely integrated MCS information and analysis, including to supporting Members high seas MCS activities and in reporting to TCC/WCPFC sessions.

##### *Members*

- Commencing in 2013, a secure framework for online reporting by members of annual compliance and implementation of CMMs information (Annual Report Part 2);
- Online reporting should reduce the burden of reporting obligations for CCMs, particularly small island developing States, with the potential for additional streamlining of reporting requirements over time;
- More timely access to non-public domain MCS information, including near-real time reports and summary analysis to better support MCS activities, including high seas pocket monitoring and high seas boarding and inspection activities.

## Overview of the current situation

6. The WCPFC Information Management System (IMS), is hosted on Microsoft Sharepoint, and currently has as its two primary functions to assist the Secretariat with maintaining records of incoming and outgoing correspondence between CCMs and the Secretariat and supporting the WCPFC Record of Fishing Vessels (RFV). In addition to the IMS and RFV, the Commission also has other databases that sit externally from information contained in the IMS: the Commission VMS, catch and effort database and Regional Observer Programme database which are currently maintained under contractual arrangements with FFA and SPC-OFP respectively. The IMS is structured based on paragraph provisions in CMMs and other WCPFC decisions enables copies of emails and documents to be filed for easy access by the Secretariat. At present, CCM have login access to the SharePoint Intranet/Extranet Portal <http://intra.wcpfc.int> for the RFV direct entry.

7. In 2012, a module for high seas transshipment monitoring was developed and implemented as an enhancement to the WCPFC IMS. This module has provided the WCPFC Secretariat with a better tool to fulfil its role as set out in CMM 2009-06: the IMS module allows for the Secretariat to be able to match the relevant high seas notices and declarations, and to link transshipment reporting to the particular vessel on the WCPFC RFV. A prototype for an Annual Report Part 2 template was received by TCC8. TCC8 has recommended that the online Annual Report Part 2 feature be finalised with a view to making it available for use by CCMs for their 2013 submission of Annual Report Part 2. These two enhancements are supported through a structured IMS SQL database hosted at the Secretariat office, Pohnpei, and are a collection of integrated databases that is available to support operational and analytical needs of the Commission.

8. An incremental approach has been used to develop the current information management system and its support architecture. This has been based on off-the-shelf open source and Microsoft technologies that are common, relatively cost effective and easy to use and support, and which could be supported by the internet connectivity in Pohnpei at that time. The IMS development has been carried out to respond directly to the priorities set by TCC and the Commission, initially efforts have focussed on the Record of Fishing Vessels (RFV), organising CCMs reporting under CMMs and more recently developing a module for high seas transshipment monitoring. The incremental approach to IMS development was appropriate at that time and for the allocated budget, and in line with the IT capabilities available. Pohnpei's technology and support environment has made huge progress including fast broadband Internet access, and the expectations of the Commission for work by the Secretariat supported by the current IMS infrastructure have also increased significantly.

9. Currently MCS or compliance-based analytical work using the information contained within the IMS, including comparing and verifying reports from various WCPFC MCS information for the purpose of TCC Annual Reporting, is completed by the Secretariat in an ad-hoc way, often through the use of Microsoft Word, Excel or Access tables/or pivot spreadsheets. This approach is currently used for a broad range of WCPFC compliance and MCS information, including:

- Eastern High Seas Pocket Monitoring;
- High Seas Pocket 1 Monitoring;
- High Seas Boarding and Inspection reports;
- VMS Manual position reporting;
- Compliance Monitoring Report generation;
- Reporting and maintenance of registers of authorised MCS entities and personnel and records of WCPFC data requests; and
- Verifying WCPFC VMS database records with WCPFC RFV information.

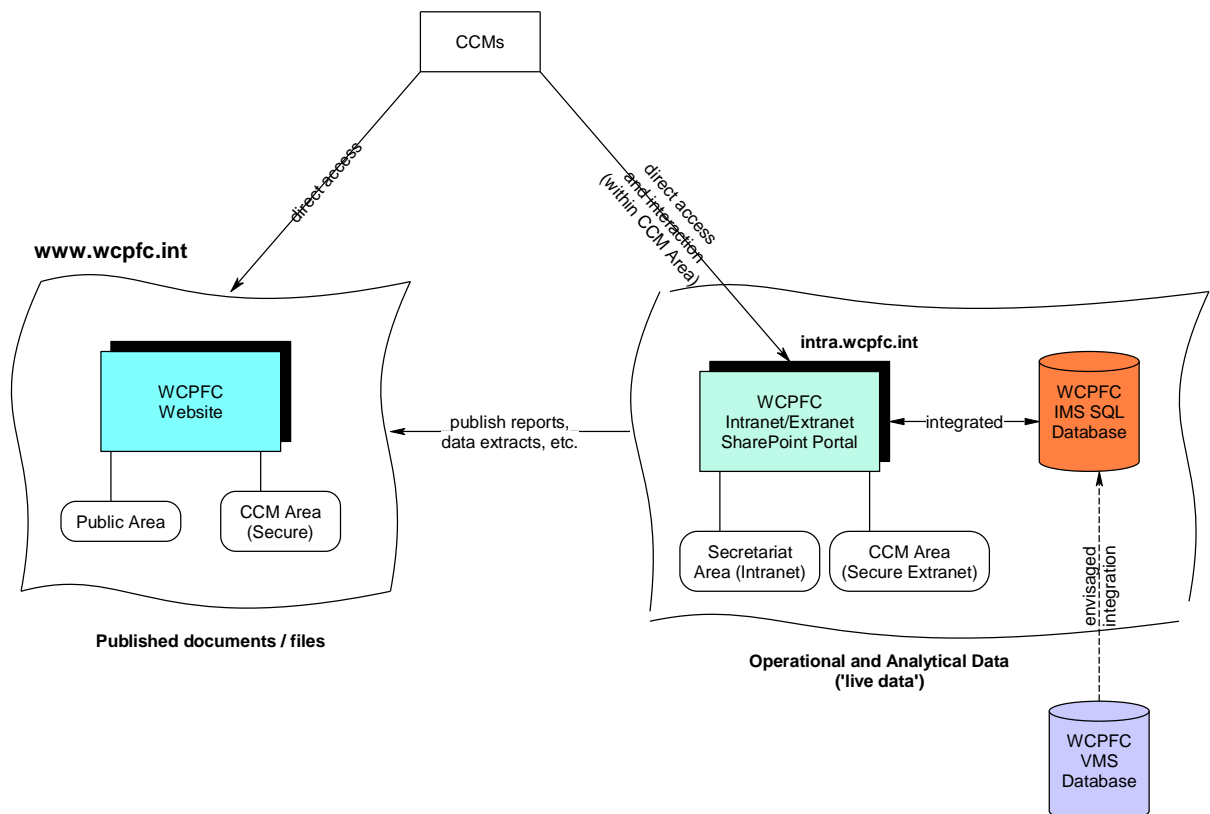
10. The Commission website <http://www.wcpfc.int> is hosted externally from the Secretariat office. It was set up to document and gazette WCPFC meeting papers, summary records and copies of WCPFC decisions including CMMs. General information on WCPFC is provided for Members and the public

on CMMs, the WCPFC Science Programme and WCPFC MCS scheme including High Seas Boarding and Inspection information and links to the WCPFC RFV, WCPFC Interim Register of Non-CCM carrier and bunkers. Increasingly the secure Members only section of the WCPFC website has become an important tool for the Secretariat to disseminate information to WCPFC members. Currently there are records maintained on this site for:

- 2012 WCPFC Circulars;
- Cooperating Non-Member applications and analyses;
- High Seas Pocket Monitoring, including EHSP and HSP1 near-real time summary lists;
- Intersessional Working Group papers (2012);
- Copies of Annual Report Part 2;
- Draft and Provisional Compliance Monitoring Reports;
- WCPFC IUU list supporting documentation;
- Lists of authorised MCS entities and personnel;
- Other information which CMMs require that CCMs submit to the Secretariat for circulation to all WCPFC Members, for example FAD Management Plans; and
- Other documents which the WCPFC determines to be non-public domain.

11. A diagram which shows the linkages between the WCPFC IMS and the WCPFC website in terms of information management and also dissemination is shown in Figure 1, both environments have public and secure user interfaces.

**Figure 1: WCPFC information management high level architecture**



## **Rationale for an enhanced WCPFC IMS with increased integration of MCS information and supported by the WCPFC website**

12. Since 2005, the number of conservation and management measures has increased, (from 7 CMMs and 2 Resolutions, to 29 CMMs). The additional CMMs has led to increased flows of information from vessels and Members to the Secretariat, and increasing amounts of information to be managed through the WCPFC IMS.

13. Through these CMMs, and other decisions of the Commission, including the WCPFC Data access rules and procedures, the Secretariat has been tasked with an increasing role in analyzing and providing to members (through the website or directly) near-real time information to support WCPFC Members monitoring, control and surveillance activities in high seas areas including high seas pockets monitoring.

14. In addition, through the Compliance Monitoring Scheme, there is a growing expectation the work each year by the Secretariat on Compliance Monitoring Reports, will eventually draw from the broad range of information sources received by the Commission, including the Vessel Monitoring System and Regional Observer Programme, Reports submitted by Members and by fishing vessels, and other data collection program of the Commission.

15. TCC8 has recommended to WCPFC9 that subject to available funds, the Secretariat continue work to develop its internal systems including the further development of an enhanced and integrated WCPFC Information Management System to improve the integration of WCPFC MCS information. Other priorities include delivering to Members an online interface for submitting their annual reports to the Commission on compliance and implementation of measures (Annual Report Part 2), as well as developing an internal online system to assist the Secretariat with generating draft Compliance Monitoring Reports for each CCM (currently 33).

16. Objectives for the proposed enhancements to the WCPFC IMS include:

- i. To deliver to Members an online interface for submitting their annual reports to the Commission on compliance and implementation of measures (Annual Report Part 2), with potential to streamline Members annual reporting in the future;
- ii. To improving the capability of the Secretariat to meet reporting tasks set out in CMMs and other decisions of the Commission, such as high seas pocket monitoring and dissemination of WCPFC non-public domain information;
- iii. To enhance the capability of the Secretariat to better respond to Members expectations for accurate and timely information, including supporting Members high seas MCS activities, including through WCPFC data requests;
- iv. To improve the capability of the Secretariat to provide integrated MCS reporting and analysis for TCC/WCPFC and other requests;
- v. To better equip the Secretariat to be able to respond to the requirements of the Compliance Monitoring Scheme, in particular drawing from a greater range of currently available WCPFC MCS information;
- vi. To create an internal online system to assist the Secretariat with generating draft Compliance Monitoring Reports for each CCM (currently 33);
- vii. To enhance the current website capability for use by the Secretariat to distribute and disseminate of WCPFC information, particularly non-public domain information, to members; and
- viii. To continue to provide adequate, robust, secure and redundant the WCPFC's information systems and business applications.
- ix. To assist the Secretariat with improved record keeping of WCPFC data requests;

- x. To improve content management and the handling of meeting documents on the Commission website, including bulk downloading and updates of all meeting documents at once if selected;
- xi. To improve and provide granular level security and allow the implementation of security at CCM level, individual level, and/or time limited access for the Commission website; and
- xii. To automate and streamline the publishing of documents on the Commission website especially the reporting and outputs from the internal IMS.

## The Proposed Enhancements

17. In 2013 and 2014, amounts of \$135,000 and \$100,000 are being sought for a phased investment by the Commission to increase the integration of MCS information in the WCPFC IMS and required website enhancements. The projects and preliminary budgetary estimates were developed based on a quick business requirements analysis, undertaken by the Secretariat in conjunction with WCPFC IMS contractor *Taz-E* and in consultation with website host *Eighty Options*. More detailed requirements analysis including confirmation of the final budgetary estimates, will be undertaken as part of the implementation at the commencement of each proposed project.

18. It should be noted that this budgetary proposal has been developed with the assumption that the GEF- *Areas Beyond National Jurisdiction (ABNJ) project* (WCPFC9-2012-24) will be approved. WCPFC has a proposed activity included in *Sub-component 2.E. Maximize MCS Tools Synergies*, for the design and implementation of IMS extension to support enhanced integration of WCPFC data sources including WCPFC VMS data, which are related to high seas transshipment notices and declarations, and High Seas Boarding and Inspection Reports. The primary purpose of this activity to expand the use of the current satellite-based WCPFC VMS data, through enhanced integration of VMS data, observer programme data, high seas transshipment notices and declarations and the WCPFC Record of Fishing Vessels within the WCPFC Information Management System. This proposed project is expected to provide supplementary funds to WCPFC over 2013-15 for three phases: an Internal Workshop; requirements analysis; and design and analysis phase.

19. The Secretariat's proposed enhancements to the WCPFC IMS are outlined in the next set of tables and Figure.

- Table 1 provides a list of the proposed project for the WCPFC IMS with a brief description of proposed outcomes, as well as some suggestion prioritisation.
- Table 2 provides a description of the associated priority website projects for 2013.
- Figure 2 provides a diagram to illustrate the proposed WCPFC IMS with increased integration of MCS information.
- Table 3 provides a consolidated budget for the proposed enhancements for the WCPFC IMS/website.

**Table 1: Summary of New Development Projects and Enhancements to Commission IMS and SharePoint Portal**

Project	Proposed Outcome	Indicative Cost (*)	Indicative Timing (**)
AR-P2 and CMS	Based on the previous prototype, implement a complete mechanism for on-line submission of AR-P2 and interfacing this information with CMRs. Create document libraries for uploading of materials by CCM's in support of AR-P2. Enable draft CMR's to be managed as a structured on-line template. Implement required mechanisms to print/publish AR-P2 and CMR.)	2012 funding	High priority  2013
<b>RFV Required</b>	Implementation of changes and additions relevant to the	\$10,000	High priority

<b>Project</b>	<b>Proposed Outcome</b>	<b>Indicative Cost (*)</b>	<b>Indicative Timing (**)</b>
<b>Changes /Additions</b>	expiry of the Interim Register and requirements for keeping records of Chartered Vessels. Further, including a feature for easily generating lists of vessels that are authorized to transship at sea (CMM 2009-06), and a process for producing summary statistics from IMS databases that takes into account vessel changes over time.		2013
<b>SMA Monitoring</b>	An up-to-date status of Vessels entering, exiting and located within SMA's is recorded, monitored and made available to CCMs concerned, including publishing to the website. 'Manual entry/exit reports' are combined with VMS data and alerts to provide the required SMA monitoring capability. A complete and searchable record of relevant correspondence is maintained within the WCPFC SP Intranet Portal.	\$30,000	High priority 2013
<b>VMS Manual Reports</b>	The requirement for continuous monitoring of vessel positions (supported by VMS) is complemented by capturing 'manual position reports' (when MTU stops transmitting). Ideally manual positions will be integrated into VMS database. An up-to-date list of vessels currently reporting manually is maintained and will be able to be published. What is needed is a complete and searchable record of relevant correspondence, maintained within the WCPFC SP Intranet Portal.	\$10,000	High priority 2013
<b>Managing Data Access Requests</b>	Develop a compressive mechanism to manage the entire 'life cycle' of any particular request by a CCM for the release of non-public data. This includes keeping a current record of authorized MCS personnel, classification/types of non-public data and other relevant reference data. The project would deliver a 'workflow' type solution that ensures compliance with 'Data RaP'.	\$30,000	High priority Implemented from 2013 and will extend across to 2014
<b>IMS Analytical Capability</b>	The two main architectural components of the WCPFC IMS (the SP Portal and the IMS SQL Database) provide a wealth of fully integrated data covering many different business areas. This data can further be interfaced with essential VMS data to form the basis for developing a comprehensive analytical capability for producing queries, reports and analyses, either pre-defined (for known requirements) or ad-hoc, as needed. This would allow for enhanced compliance analysis, using multiple combined sources of all current and historical data. Development of IMS Analytical Capability could be done through a phased approach, with incremental additions of new features.	Possible financing under proposed FAO ABNJ project	High priority Implemented from 2013 and will extend across to 2014
<b>HSBI Reporting</b>	Support for information management relevant to the CMM 2006-08. A record of each HS boarding event is maintained, including details of the vessel inspected, date/time of the event, any violations detected, etc. Required reports on this data are made available. Integration with the relevant section of AR-P2 is established. A complete and searchable record of relevant correspondence is maintained within the WCPFC SP Intranet Portal.	\$30,000	Medium priority 2014 (or 2013 if funding permitting)
<b>Transshipment at HS</b>	Support for information management relevant to the CMM 2009-06. Recording data from Observer forms FC1, FC2 and FC3 for the purpose of reporting and integration with Transshipment Declarations data. Provision of cross-check analysis of data from these two different sources. A	\$10,000	Medium priority 2014 (or 2013 if funding

Project	Proposed Outcome	Indicative Cost (*)	Indicative Timing (**)
	complete and searchable record of relevant correspondence is maintained within the WCPFC SP Intranet Portal.		permitting)
<b>ROP Support</b>	Maintaining the list of Observers and Observer Trips/Deployments in support of 'Observer Coverage' requirements (CMM 2007-01 and CMM 2008-01). Providing that data is regularly received from all CMMs, this project will provide an up-to-date information on current observer deployments and will enable cross-checking of the actual observer coverage.	\$10,000	Medium priority  2014 (or 2013 if funding permitting)
<b>RFV Enhancements</b>	This project would deliver a number of enhancements to the RFV, including: - Standardization regarding the current data fields and inclusion of additional ones (as per 2011 RFV SSP proposal, or similar) - A mechanism for submitting vessel changes/additions via an electronic file for batch upload into RFV - Normalization of People and Organizations data that would see Vessel Owner organizations being recorded in a structured way to allow for better integration with other MCS system. This would also apply to Vessel Captains.	\$30,000	Medium priority  2014  ** subject to the RFV SSPs consideration

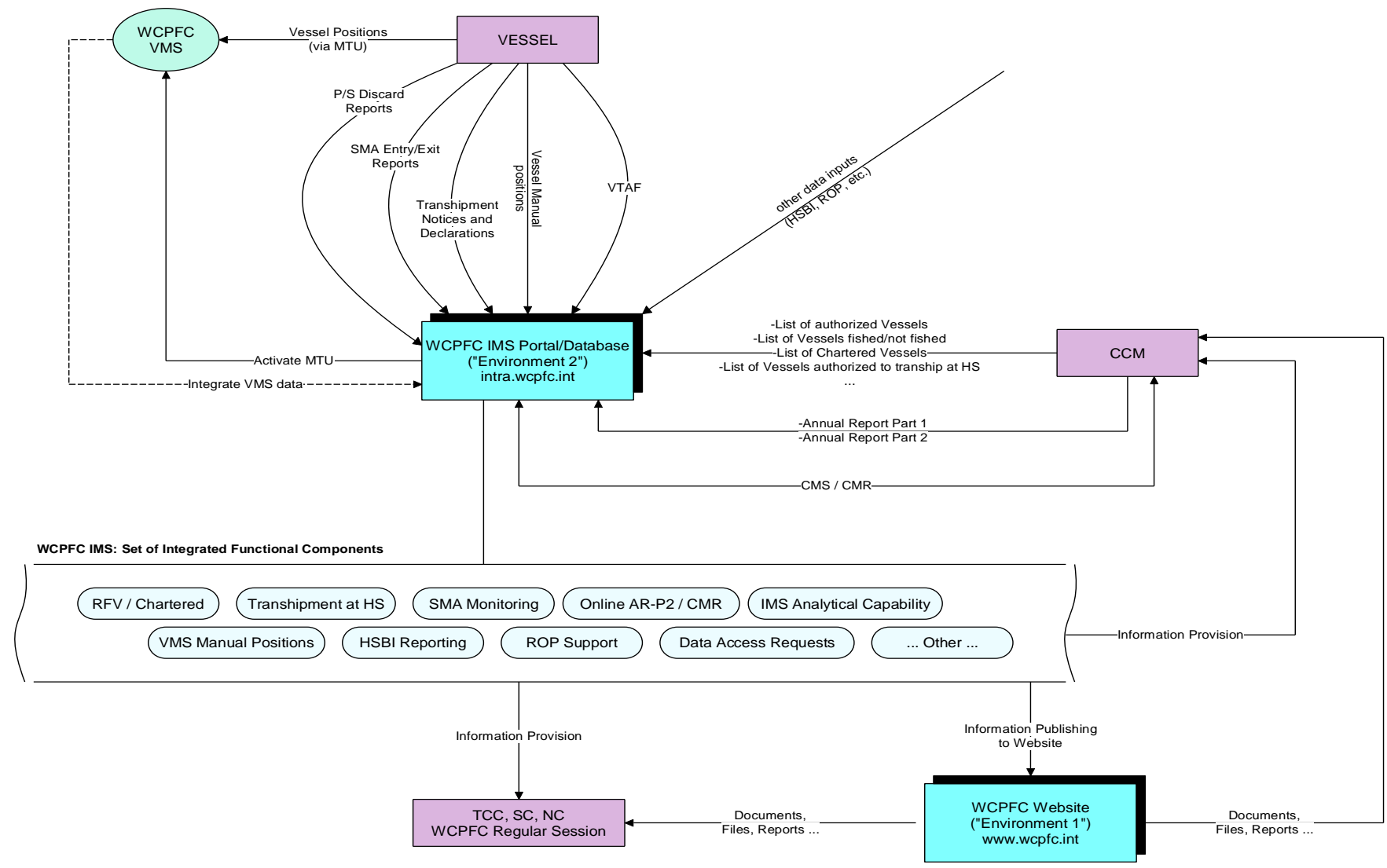
**Table 2: Summary of New Development Projects and Enhancements to Commission Website**

Project	Outcome	Indicative Cost (*)	Indicative Timing (**)
<b>Content Analysis and Re-design:-</b> (i) Website content/user activity analysis report on current usage and needs, & identify priority areas where interface and navigation design to improve usability. (ii) Based on analysis report, prepare mockup images of a new website interface design in consultation with and incorporating feedback from WCPFC. (iii) Provide detail plan and cost to implement new changes.	Analysis report  New design and mockup images  Design implementation plan and costs	\$4,000	High priority  2013 (funding permitting)
<b>Website System Upgrade and new design:</b> (i) Migrate to Drupal 7 framework supportable for 4 years. (ii) Migrate meeting documents to database with new interface, document control and security and site searching (iii) implement new interface and navigation designs using the Drupal 7 framework and structured databases	Upgrade to Drupal 7  Structured database for meeting / agenda documents  New website design in place	\$9,000	High priority  2013 (funding permitting)
<b>WCPFC Meeting Server Using NAS technologies with authenticated access:</b> (i) Improvements to Commission's existing NAS with WebDAV technology in place that can support public documents only. (ii) Enhance NAS implementation to provide authentication support to enable local secure network access to sensitive documents, synchronized to website	Delegates can download all meeting documents at once. Second NAS configured and delivered as redundancy	\$4,000	High priority  2013 (funding permitting)



Project	Outcome	Indicative Cost (*)	Indicative Timing (**)
	measure  WebDAV technology for secure documents.		
<p><b>WCPFC scoping and training for WCPFC staff on-site in Pohnpei. This will involve a visit to WCPFC by Eighty Options staff:</b></p> <p>(i) Training on setting up NAS meeting servers, configuration of local networks to use NAS, use of mobile devices such as IPAD and to browse documents through WebDAV.</p> <p>(ii) Training on content management using upgraded WCPFC website, hands-on software training and content strategy training.</p> <p>(iii) On-site requirements analysis on synchronization of documents between WCPFC Intranet and Website, similar to current RFV synchronization.</p> <p>(iv) On-site requirements analysis on improvements to website security model. CCM section, scientific section content management and delegation other content management sections</p>	<p>NAS training to handle meeting documents currently handled by meeting servers</p> <p>Content management training</p> <p>Document synchronization requirements analysis</p> <p>Security requirements analysis</p>	<p>\$6,000 plus travel costs of \$5,000</p> <p>\$11,000 total</p>	<p>High priority</p> <p>2013 (funding permitting)</p>
<p><b>Synchronization of Documents from Intranet to Drupal (i.e. SharePoint / Drupal Document Synchronization):</b></p> <p>(i) Implement a method for WCPFC to synchronize any document between SharePoint (Intranet) and Drupal (Website).</p> <p>(ii) Support restricted access to synchronized documents.</p>	<p>Document synchronization</p> <p>Document security</p>	<p>\$2,000</p>	<p>High priority</p> <p>2013 (funding permitting)</p>
<p><b>Implement revised security model based on requirements analysis undertaken during on-site visit to WCPFC:</b></p> <p>(i) Intuitive separation of main WCPFC website from CCM section implemented using model that supports additional future security groups, such as HSP1 and EHSP or some others.</p> <p>(ii) Support for security groups defined down to individual CCMs where user is registered with particular CCMs</p> <p>(iii) Enable Secretariat to create secure pages with time-limited access by user based on data access requests</p> <p>(iv) Support WebDAV access to revised security model allowing meeting server NAS/mobile device access via WebDAV</p>	<p>CCM security implementation</p> <p>Individual CCM security implementation</p> <p>Time-limited access</p> <p>WebDAV support</p>	<p>\$5,000</p>	<p>High priority</p> <p>2013 (funding permitting)</p>

**Figure 2: WCPFC high level information data flows and proposed analysis / report outcomes (WCPFC IMS components are as proposed in the Table 1)**



### Recommendation and proposed budget estimates

20. A combined proposed budget and work programme for the IMS and associated website developments are provided in Table 3 below. More detailed requirements analysis including confirmation of the final budgetary estimates, will be undertaken as part of the implementation at the commencement of each proposed project.

21. Following the completion of this first stage of the IMS development (towards the end of 2014) and noting that a number of members are developing their own complementary national IMS, it would be useful to consider the establishment of a WCPFC member-based advisory group to provide some input on on future developments and improvements to IMS.

**Table 3. Preliminary Budget Estimate for IMS and WCPFC website Proposed Activities**

	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>SLA for IMS support services</b>	10,000	15,000	15,000
<b>AR-P2 and CMS Implementation</b>	Implemented from April 2013 using 2012 funds		
<b>SMA Monitoring</b>	30,000		
<b>RFV required additions and changes</b>	10,000		
<b>VMS Manual Reports</b>	10,000		
<b>Managing Data Access Requests</b>	20,000	10,000	
<b>HSBI Reporting</b> **2014 (or 2013 if funding permitting)		30,000	
<b>Transshipment at HS</b> **2014 (or 2013 if funding permitting)		10,000	
<b>ROP Support</b> ** 2014 (or 2013 if funding permitting)		10,000	
<b>IMS Analytical Capability</b> **ABNJ MCS project for integrating VMS and other MCS data within WCPFC IMS		<i>tbc</i>	<i>tbc</i>
<b>Contingency funds for IMS enhancement/refinements</b>	20,000	35,000	35,000
<b>INTEGRATED INFORMATION MANAGEMENT SYSTEM (SUPPORT AND ENHANCEMENTS)</b>	<b>100,000</b>	<b>100,000</b>	<b>50,000</b>
<b>WCPFC WEBSITE NEW PROJECTS AND ENHANCEMENTS</b>	<b>35,000</b>		
<i>Additional priority projects depending on the outcome of WCPFC9 or WCPFC10 decisions</i>			
<b>Proposed High Seas purse seine reporting and verification system</b> (as proposed in WCPFC9-2012-12)	30,000		
<b>Streamlining Annual Reporting</b> (FFA proposal - a terms of reference is needed to better estimate the costs)	30,000 - 50,000		
<b>RFV Enhancements</b> ** subject to the RFV SSPs consideration		30,000	