



TECHNICAL AND COMPLIANCE COMMITTEE
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ANNUAL REPORT ON THE COMMISSION VMS

WCPFC-TCC14-2018-RP01
10 September 2018

Paper prepared by the Secretariat

Purpose

1. The purpose of this paper is to present the Annual Report of the Commission VMS for the consideration of TCC14.

Introduction

2. The Annual Report for the Commission VMS is prepared in accordance with the VMS SSPs requirements paragraph 7.3.9 and 7.3.10.
3. The paper is structured as follows:
 - Background and Introduction;
 - Service level agreement with FFA
 - Contracts with Mobile Communication Service Providers;
 - Commission VMS Database;
 - List of Approved MTUs/ALCs;
 - VMS Audit Report;
 - Manual Position Reporting;
 - Provision of High Seas data for MCS activities;
 - Update on Tasks from WCPFC14;
 - Security and integrity of Commission VMS; and
 - Recommendation.
4. Two related TCC14 papers should be read with this report:
 - **TCC14-2018-13A:** Proposals for inclusion of additional ALCs on the WCPFC approved ALC/MTU list; and
 - **TCC14-2018-13B:** Proposal to update VMS Standard Operating Procedures.

Background and Introduction

5. Article 24(8) of the Convention obliges each Member of the Commission to require its fishing vessels that fish for highly migratory stocks on the high seas of the Convention Area to use an ALC/MTU which meets agreed WCPFC Standards, Specifications and Procedures, while in these areas. To implement this requirement, the Commission has adopted CMM 2014-02 Commission Vessel Monitoring System Conservation and

Management Measure, a set of Standards, Specifications and Procedures (SSPs) which were initially approved in 2008 (WCPFC5) and that were most recently modified in 2016 (WCPFC13), and a set of Standard Operating Procedures (SOPs) which were approved in 2009 (WCPFC6). The Secretariat proposed revisions and updates of the SOPs is presented in **TCC14-2018-13B**.

6. Additionally, in 2012 (WCPFC9) the Commission adopted a Statement of Purpose and Principles for the Commission VMS. The stated purpose of the Commission VMS is “to cost-effectively monitor the activities of fishing vessels authorized by flag States to fish for highly migratory fish species in the Convention Area in areas beyond jurisdiction of the Flag State. Data collected by the Commission VMS will be securely stored and used by the Commission and its Members, Cooperating Non-Members, and Participating Territories (CCMs) to achieve compliance with Conservation and Management Measures (CMMs), fisheries scientific analysis and sound fisheries management decision-making in the Convention Area.”
7. The Commission VMS primarily covers high seas waters of the Convention Area. WCPFC9 agreed to a decision related to the application of the Commission VMS solely to waters under the jurisdiction of Members and to complement and support Members’ national VMS. Since the “Flick the Switch” proposal was approved at WCPFC9 the following CCMs - Australia, Federated States of Micronesia, France (including New Caledonia, French Polynesia and Wallis and Futuna), Nauru, Palau, Samoa, Solomon Islands, Tonga, Tuvalu, and the United States of America have provided letters of notification for the Commission VMS to cover their EEZ. Since 8 April 2016, to date no additional CCMs waters have been included in the coverage of the VMS.
8. The approved structure of the Commission VMS system allows vessels to report to the WCPFC through two ways: i) directly to the Commission VMS, or ii) to the WCPFC through the FFA VMS. There are several contracts that the Secretariat maintains to facilitate the necessary arrangements for the Commission VMS. These are described in the paragraphs below.

Service Level Agreement with the FFA

9. 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, and the Commission VMS became operational in April 2009. VMS service is provided through the Service Level Agreement with FFA and since 30 June 2016, the service provider has been TrackWell (www.trackwell.com).
10. There are now 134 users from 35 CCMs, however only 36 users from 13 CCMs are actively using the system. The list of CCMs with user logins to the Commission VMS is provided in **TCC14-2018-RP08_Annex 3**. A breakdown of when user accounts were created are shown below in **Table 1**.
11. The Secretariat presently has no matters of note to raise for TCC’s attention with respect to the Service Level Agreement with the FFA.

Table 1. Number of VMS Users by CCMs and year user account was created

CCM / approved user	2016	2017	2018	Total
Australia	2		7	9
Canada			2	2
China	4			4
Cook Islands	2	1		3
Ecuador	1			1
El Salvador	1			1
European Union	9			9
Fiji	1			1
France	5	1	1	7
Federated States of Micronesia	4			4
Indonesia	10			10
Japan	5			5
Kiribati	1			1
Korea	9			9
Liberia	1			1
Mexico	1			1
Marshall Islands	1			1
New Caledonia	10			10
Niue	1			1
Nauru	1		1	2
New Zealand	4	9	6	19
Panama	1			1
Philippines	6			6
Palau	2			2
Papua New Guinea	1			1
Samoa	1		1	2
Solomon Islands	1			1
Thailand	1			1
Chinese Taipei	4			4
Tokelau	1			1
Tonga	1			1
Tuvalu	1			1
United States of America	4	1		5
Vietnam	1			1
Vanuatu	6			6
WCPFC Secretariat	8			8
Total Users	112	12	18	142

Contracts with Mobile Communications Service Providers

12. 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 that are activated to report directly to the Commission VMS. For this purpose, the WCPFC Secretariat has contracts with:
- SpeedCast (formerly Satcomms Australia) – for Inmarsat C, D+ and Faria_watchdog Iridium services;
 - CLS Argos – for Argos and Halios/Iridium services; and
 - Vizada – an operational agreement for Inmarsat C DNID management;
13. The Secretariat presently has no matters of note to raise for TCC’s attention with respect to the Contracts with Mobile Communication Service Providers.

Commission VMS database

14. Paragraph 2.8 of the SSPs requires the Secretariat to administer a Commission VMS database. It further states that:

“For each fishing vessel required to report to the Commission VMS the flag CCM will submit all necessary data to complete its data file in the Commission’s VMS database. This data will include the name of the vessel, unique vessel identification number (UVI), radio call sign, length, gross registered tonnage, power of engine expressed in kilowatts/horsepower, types of fishing gear(s) used as well as the make, model, unique network identifier (user ID) and equipment identifier (manufacturer’s serial number) of the ALC that vessel will be using to fulfil its Commission VMS reporting requirements.”

15. To facilitate the submission of necessary vessel tracking data for each fishing vessel required to report to the Commission VMS, the Secretariat has provided for flag CCMs use a guideline VTAF form. VTAF forms (MS Excel, pdf, word format) are available on the WCPFC website: <https://www.wcpfc.int/vessel-monitoring-system>.
16. Some general statistics on the Commission VMS over time are provided in the following charts (Figures 1-3) below. Some summary information by flag about the current status of VTAF records is provided in **Table 2** below. As at 31 May 2018, there were 3794 vessels that were considered to be activated to report to the Commission VMS: 42% are reporting through Service Provider “Speedcast”, 33% are reporting through FFA and 25% are reporting through CLS Argos. In addition, 5 SkyMate units have been activated in 2018.

Figure 1. Vessel activations by year as of 31 May 2018

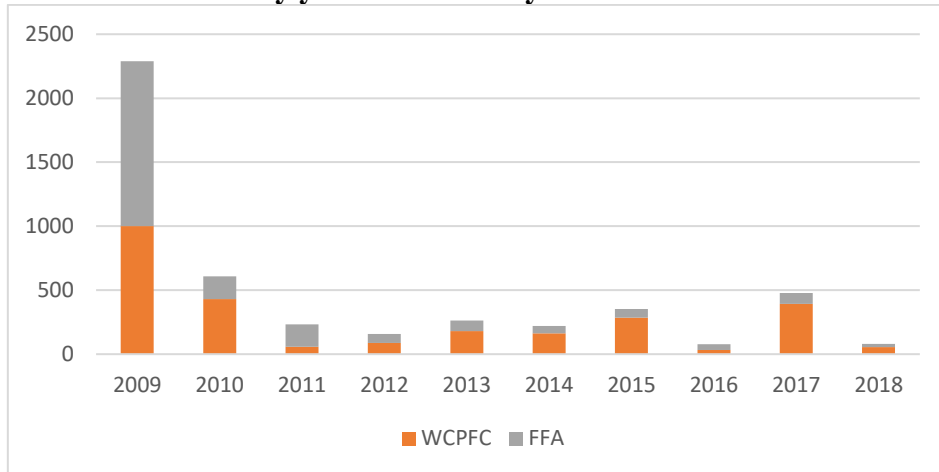


Figure 2. Number of VMS vessels against RFV list, as of 31 May 2018.

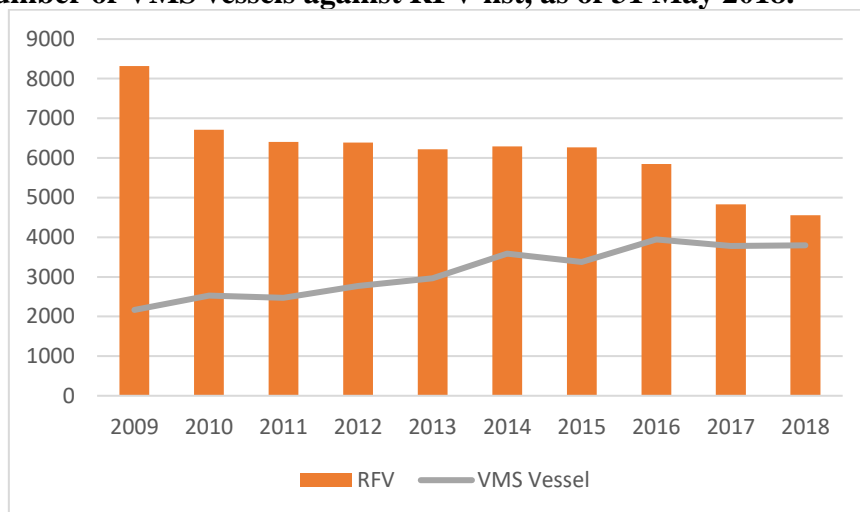
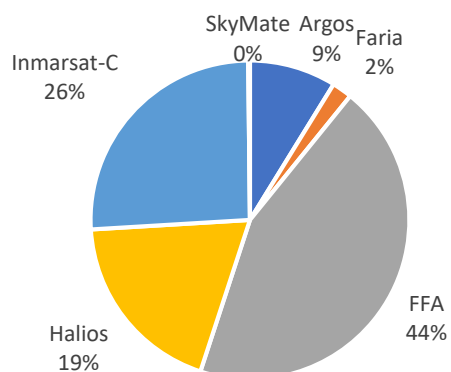


Figure 3. The percentage of vessels currently reporting by Channel on the Commission VMS in 2018



17. Table 2A below lists the number of vessels with an “Active” status on the WCPFC Record of Fishing Vessels (Vessel_count), information available to the Secretariat on count of FFA good standing status (FFAGoodStanding_Cnt) and reported by the flag CCM as fished beyond its national jurisdiction (Fished_Cnt).

Table 2A. Summary of the number of vessels by flag for which the Secretariat has VTAF data (VTAF_recorded_Cnt) in 2017 and 2018 and received position reports in areas covered by the Commission VMS (VMS_Tracked_Cnt). (as at 3 September 2018)

CCM	2017							2018						
	Vessel Count	AFA Received Cnt	Fished Cnt	Did Not Fish Cnt	VTAF Recorded Cnt	FFA Good Standing Cnt	VMS Tracked Cnt	Vessel Count	AFA Received Cnt	Fished Cnt	Did Not Fish Cnt	VTAF Recorded Cnt	FFA Good Standing Cnt	VMS Tracked Cnt
AU	64	64	9	55	41	0	35	57	0	0	0	39	0	38
CA	15	15	5	10	1	0	1	15	0	0	0	1	0	0
CK	18	18	1	17	11	15	15	22	0	0	0	15	21	18
CN	634	634	392	242	451	324	386	614	0	0	0	430	304	347
EC	7	7	4	3	5	5	6	7	0	0	0	5	5	5
EU	78	78	6	72	19	5	5	78	0	0	0	19	5	5
FJ	75	75	35	40	13	60	37	69	0	0	0	13	62	36
FM	41	41	38	3	23	40	39	38	0	0	0	22	38	34
ID	15	15	0	15	1	0	0	19	0	0	0	1	0	0
JP	885	885	459	426	577	141	382	804	0	0	0	568	135	330
KI	35	35	26	9	15	24	26	32	0	0	0	14	22	20
KR	213	213	158	55	151	165	161	213	0	0	0	149	159	156
LR	34	34	4	30	8	5	7	29	0	0	0	8	4	5
MH	14	14	14	0	6	14	13	14	0	0	0	6	13	13
NC	17	17	3	14	13	0	3	16	0	0	0	12	0	7
NR								2	0	0	0	2	2	2
NZ	4	4	2	2	2	2	3	3	0	0	0	2	1	2
PA	125	124	87	37	42	90	81	128	0	0	0	44	75	80
PF	76	76	0	76	0	0	0	77	0	0	0	0	0	0
PG	51	51	18	33	14	36	24	40	0	0	0	11	31	23
PH	409	409	322	87	265	57	267	403	0	0	0	263	55	242
SB	11	11	5	6	2	11	11	10	0	0	0	2	10	10
SV	4	4	2	2	3	2	2	4	0	0	0	3	2	2
TH	8	8	0	8	2	0	0	6	0	0	0	2	0	0
TO	1	1	0	1	0	0	0	1	0	0	0	0	0	0
TV	6	6	4	2	4	5	5	7	0	0	0	4	4	3
TW	1670	1670	644	1026	888	171	499	1616	0	0	0	880	167	490
US	224	224	194	30	180	39	200	228	0	0	0	182	36	194
VU	108	108	85	23	66	47	80	75	0	0	0	61	41	69
	4842	4841	2517	2324	2803	1258	2288	4627	0	0	0	2758	1192	2131

18. Table 2B below provides a count of vessels on the RFV by vessel type that report to the Commission VMS directly or through the FFA VMS.

Table 2B. Count of vessels on the RFV by vessel type that report to the Commission VMS, through the FFA VMS and directly activate to report to the WCPFC VMS as at 3 September 2018.

Channel	2017		2018	
	Direct	FFA	Direct	FFA
Longline	1,160	801	1,063	774
Purse Seine	76	252	79	236
Carrier	98	153	97	139
Bunker	2	29	1	25
Troll	9		11	
Pole & Line	48	26	46	24
Other	134	1	125	2
Total	1,527	1,262	1,422	1,200

List of WCPFC Approved MTUs/ALCs

19. WCPFC12 approved an amendment to Section 2.7 of the VMS SSPs which came into effect in February 2016, and that amendment prescribed the process for how ALCs will be included or removed from the WCPFC Approved List.¹ A copy of the current List of WCPFC-approved Mobile Transceiver Units (MTU)/Automatic Location Communicators (ALC)s is appended in Annex 1 to this paper. The Secretariat recommendations on requests from CCMs for inclusion of additional ALCs on the WCPFC approved ALC/MTU list can be found in **TCC14-2018-13A**.
20. In December 2017, the Commission agreed that “CCMs shall ensure that vessels flying their flag do not purchase, install or transfer the following VMS units: **FVT, MAR GE, MAR GE V2, and MAR GE V3** (all Argos units) and that they be removed from the WCPFC approved ALC/MTU list. The Commission further agreed that existing units on vessels shall be allowed to continue to operate for 5 years (*until 1 January 2023*). CCMs whose vessels use these models shall provide a list of vessels that are using the units to the Secretariat and shall update the list annually.” (WCPFC14 Summary Report paragraph 424).
21. A summary of the current status of the phase out of FVT, MAR GE, MAR GE V2 and MAR GE V3 ALC units is shown in **Table 3** below.

Table 3: Analysis of the current status of the phase out by CCMs of FVT, MAR GE, MAR GE V2 and MAR GE V3 ALC units – as at 3 September 2018

CCM	Vessel Type	Count of vessels on the RFV with an “active” MTU unit of this type (count of vessels CCM advised “fished” in 2017)			
		FVT	MAR GE	MAR GE V2	MAR GE V3
CHINA	Longline			5 (5)	7 (0)
ECUADOR	Purse Seine				1 (1)
INDONESIA	Pole and Line		1 (0)		
JAPAN	Longline		25 (6)	74 (15)	6 (3)
KOREA	Longline	1 (1)	5 (3)	1 (1)	
LIBERIA	Fish Carrier			4 (3)	
PANAMA	Fish Carrier		2 (2)		
PHILIPPINES	Fish Carrier				1 (1)
	Other		6 (6)	56 (52)	41 (40)
CHINESE TAIPEI	Fish Carrier	1 (1)			
	Longline	5 (0)		48 (13)	
VANUATU	Fish Carrier		1 (1)		
	Longline	2 (2)		5 (5)	

¹ The current list is published on the WCPFC website at this link: <https://www.wcpfc.int/vessel-monitoring-system>. In addition, and noting that the approved structure of the Commission VMS system allows vessels to report to WCPFC through the FFA VMS, the FFA requirements determine the ALC units that are able to be used for reporting through the FFA VMS system.

22. To date no CCMs have informed the Secretariat of their lists of vessels that are using the MTU units that are subject to the phase out until 1 January 2023. The counts in Table 3 above is based on the Secretariats list of MTUs that are presently activated to report directly to the WCPFC VMS and were listed on the RFV as at 3rd September 2018.

VMS Audit Report

23. 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 are to be provided to the Commission by CCMs in the Part 2 Annual Report to the Commission (WCPFC VMS SSPs 7.2.2). Since 2013, the WCPFC Secretariat has provided CCMs with an electronic facility to report their MTU audit inspection results as shown in **Table 4** below.

Table 4. Number of MTU audits by type from 2014 to date.

MTU Model	MTU Manufacturer	2014	2015	2016	2017	2018
RSS405A	Anritsu	5	2			
FELCOM10	Furuno			7		
JUE-95VM	JRC	36	43	45	61	5
FELCOM16	Furuno	269	257	217	231	18
JUE-75C	JRC	1				
FELCOM12	Furuno	3		6	1	1
FELCOM15	Furuno	5	1			
TT-3020C	Thrane & Thrane	2	2			
TT-3022D	Thrane & Thrane	75	99	36	25	1
TT-3026S	Thrane & Thrane	57	67	53	19	
Thorium TST-100	CLS KENWOOD	104	126	71	81	
750VMS SB	Faria - Watchdog	9	45	16	20	
750VMS W/VTerm	Faria - Watchdog	168	44	2	7	2
750VMS	Faria - Watchdog	5	5	29	39	
TT-3026D	Thrane & Thrane	33	31	19	7	
Sailor 6140	Thrane & Thrane	65	70	114	119	1
Sailor 6150	Thrane & Thrane	19	34	37	74	2
LEO	CLS ELTA	6	138	132	136	28
TNL 7001	Trimble	1	2			
TT-3026	Thrane & Thrane	9	12	4	3	
H1622D	Sailor	1				
TT-3062D	Thrane & Thrane	2	2		2	
Sailor 3027D	Thrane & Thrane	2	22	1	1	
FELCOM18	Furuno				1	
FELCOM19	Furuno		1	3	14	1
TT-3027M	Thrane & Thrane		30	27	19	
TT-3027S	Thrane & Thrane		1	1	2	
CLS TRITON	CLS OROLIA			1	4	2
CLS TRITON ADV	CLS OROLIA				9	1
SKYMATE I1500 VMS	SkyMate Inc.				2	

**MTUs to be PHASED OUT BY JAN 2023						
**FVT	CLS SEIMAC	11				
**MAR GE	CLS SERPE-IESM	5	5	4		
**MAR GE V2	CLS MARTEC SERPE-IESM	22	25	25	2	
**MAR GE V3	CLS MARTEC SERPE-IESM			44	8	

24. All CCMs that have vessels that were reported to have “fished” beyond its national jurisdiction in 2017 have carried out and reported MTU/ALC audit inspections from 2013 - 2018 for some of their flag vessels as shown in **Table 5** below.

Table 5. List of flag CCMs and number of MTU audits undertaken, compared to the count of vessels that the flag CCM advised fished in the Convention Area beyond its flag CCMs jurisdiction during 2017.

Flag CCM	Active on RFV in 2017	"Fished" in 2017	2013	2014	2015	2016	2017	2018 to date
Australia	64	9	9		52			
Canada	15	5	1	2	2			
China	634	392	187	215	346	337	303	1
Cook Islands	18	1	12	8	12	11	5	
Ecuador	7	4	7		3	2	3	3
El Salvador	4	2	4	4	2	2	2	
European Union	78	6	6	6	4	3	2	
Federated States of Micronesia	41	38	27	28	32	23	34	1
Fiji	75	35	53	67	55	35	50	
Indonesia	15							
Japan	885	459	19	105	99	114	158	23
Kiribati	35	26	2	22	24	12	16	1
Korea (Republic of)	213	158	85	110	47	33	68	1
Liberia	34	4	5		1	3	4	
Marshall Islands	14	14	14	11	11	11	11	
New Caledonia	17	3		18			4	3
New Zealand	4	2	1	4	3	2	1	
French Polynesia	76							
Panama	125	87	7	18	8	14		
Papua New Guinea	51	18	16	10	16	1	5	2
Philippines	409	322	97	118	142	132	30	
Solomon Islands	11	5	1		3	4	9	
Chinese Taipei	1670	644	13	5	6	17	34	
Thailand	8							
Tonga	1							
Tuvalu	6	4	1	1	3	1	6	
United States of America	224	194	121	154	151	100	108	27
Vanuatu	108	85	40	6	42	22	32	

25. Annex 1 of paper **WCPFC-TCC14-2018-RP04** on the Annual Report on the WCPFC High Seas Boarding and Inspection (HSBI) Scheme provides a Summary of the High Seas Boarding and Inspection activities since 1 January 2015. Of note in 2017, there were 19 out of 79 high seas boarding's where Article 25 requests for investigation related to VMS violations were noted, and from 1 January to 31 July 2018 there were 12 out of 39 high seas boarding's where Article 25 requests for investigation VMS violations were noted. The majority of the outcomes of the flag CCM investigations, were that the flag CCM advised that their review of the evidence did not support a finding of a violation by the vessels.

26. Table 6 below provides a summary of the aerial surveillance and other remote MCS activities where Article 25 requests for investigation related to VMS violations were noted since 1 January 2015. Of note in 2017, there were three instances where Article 25 requests for investigation related to VMS violations were noted, and from 1 January to 31 July 2018 there was one. The outcomes of all flag CCM investigations in 2017/18 to date, were that the flag CCM advised that their review of the evidence did not support a finding of a violation by the vessels.

Table 6. Summary of outcome of flag CCM investigations of alleged infringements that were notified to WCPFC as Article 25(2) matters, based on aerial surveillance or other remote surveillance based MCS activities (covering the period 1 January 2015 – 31 July 2018)

	Year	# cases	Flag CCM notified	Flag CCM Investigation Response					Total cases with complete flag investigations	
				Under investigation	No infraction	Infraction: no sanction	Infraction: warning	Infraction: sanction		
VMS reporting issue (CMM 2011-02/CMM 2014-02) - DETECTED THROUGH AERIAL SURVEILLANCE, VMS OR OTHER MEANS OF REMOTE SURVEILLANCE										
Total	2015	1	0	0	1	0	0	0	1	100%
Total	2016	5	0	0	3	0	0	2	5	100%
Total	2017	3	0	0	3	0	0	0	3	100%
Total	2018	1	0	0	1	0	0	0	1	100%

Manual Position Reporting

27. The Secretariat maintains a log of all vessels placed on manual reporting as required by the SSPs on VMS. The manual reports are also entered in the Commission VMS database as shown in Table 7 below.

Table 7. Number of vessels by flag that provided manual position report (July 2017 – May 2018)

CCM (Flag)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
China	7	7	4	3	10	2	3	2	2	6	5	2
Japan	2											
Korea (Republic of)		1						1		2	2	2
Panama										3		
Philippines	26	3	1	3	1		2	1	3	4	6	6
Total	35	11	5	6	11	2	5	4	5	15	13	10

Provision of High Seas VMS Data is support of MCS Activities

28. 2009 WCPFC Rules and Procedures for the Protection, Access to and Dissemination of High Seas Non-Public Domain Data and Information allows for CCMs conducting MCS activities, including in areas under national jurisdiction to request and receive, Commission VMS data, from high seas areas.
29. Seventeen (17) CCMs have requested access to 100nm high seas buffer, some on an ongoing basis, and others for the purposes of specific MCS activities. Access to the EHSP-SMA Commission VMS data has been provided to the adjacent CCMs: Cook Islands, French Polynesia and Kiribati. Some FFA members have nominated the FFA Regional Fisheries Surveillance Centre in Honiara, Solomon Islands, as one of their MCS entity to receive Commission VMS data on their behalf. A list of the approved access to Commission VMS data is provided in **WCPFC-TCC14-2018-RP08** Report on the Administration of the Data Rules.

Update on tasking from WCPFC14

30. CCMs will recall that in 2018, the Secretariat advised that a solution VMS reporting status solution presently live and available to all authorized CCMs users at this link: <https://www.wcpfc.int/ccm/wcpfc-vms-report>.
31. In December 2017, the Commission tasked the Secretariat to provide additional functionality to “Commission VMS Reporting status tool” to provide improved information to flag CCMs on VMS reporting status that is to provide additional functionality in its "Commission VMS reporting status tool" in a web-based, exportable matrix. The new tool should separately, in addition to the data listed in the current tool, provide authorized flag CCM MCS entities each of their vessel's daily VMS-reporting status (how many position reports are transmitted by each vessel on each date), and determine and display a generic vessel status ("in port" or "at sea", for example) (TCC13 Summary Report paragraph 142). This work is still in progress.
32. During 2018, as a preliminary response to the WCPFC14 task to the Secretariat, MS Excel files have been manually generated by the Secretariat that provides each flag CCM with a WCPFC VMS reporting status supporting file. This approach has also been extended to cover the 2017 calendar year, and as part of draft CMR supporting documentation the Secretariat has provided VMS reporting status reviews. This is updated monthly and available through each CCMs portal on the WCPFC website.
33. The Secretariat confirms that an updated guideline on WCPFC VMS requirements was published to the WCPFC website in the first quarter of 2018 (as requested by TCC13 Summary Report paragraph 143). This is publicly available at this link <https://www.wcpfc.int/vessel-monitoring-system>

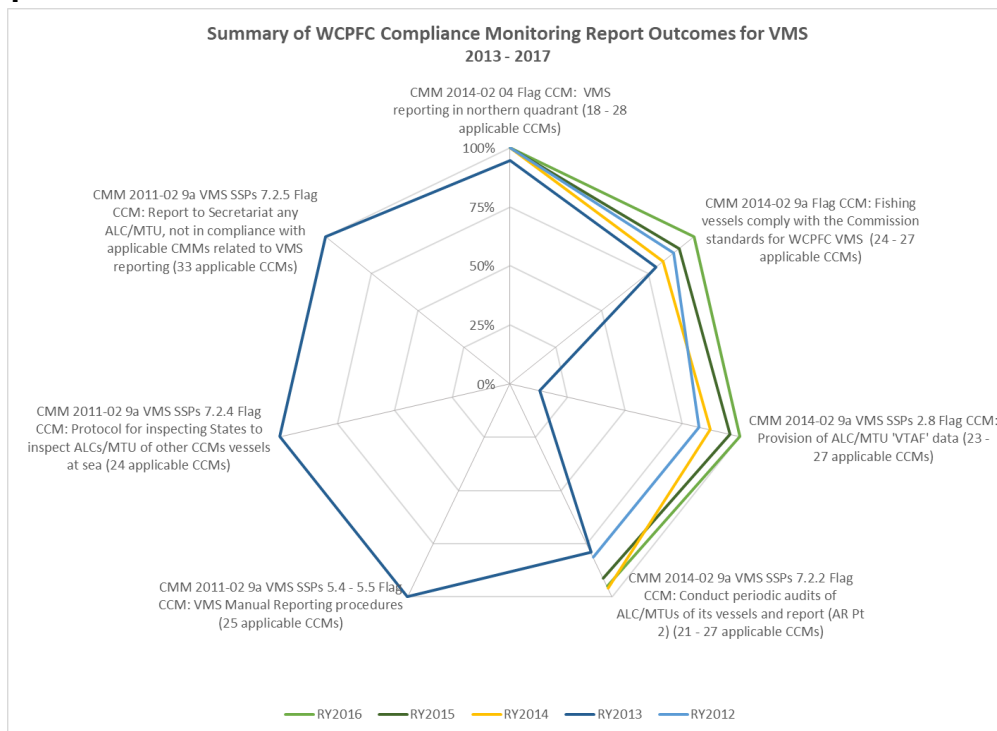
Security and Integrity of the Commission VMS

34. VMS SSP 6.10 requires the integrity of the Secretariat’s VMS data will be verified annually by qualified personnel exterior to the Commission Secretariat staff. Deloitte Touche Tohmatsu Limited was contracted to carry the audit this year. The report will be posted for authorized CCM users as a non-public domain document as **WCPFC-TCC14-2018-RP09**.

Review of VMS implementation by applicable CCMs under the Compliance Monitoring Scheme (CMS) 2013 - 2017

35. Figure 4 below provides an overview of the outcome of the evaluation of VMS-related provisions under the CMS over recent years. The Commission has reviewed the VMS-related provisions annually since 2013 for the Reporting Year 2012 (RY2012) to 2017 (RY2016), but has focused on a smaller list of obligations in recent years. Figure 4 shows general and incremental improvements in the reported outcomes in CMS for applicable CCMs of Commission VMS implementation under CMM 2014-02 or its earlier iteration. For example, submission of VTAF data (VMS SSPs 2.8) shows that in the most recent CMS evaluation, all flag CCMs are fully meeting this obligation.

Figure 4



Recommendation

36. TCC14 is invited to note the report and discuss the activities of the Commission VMS.

CCMs approved MTU as at 9 February 2018

Also published at <https://www.wcpfc.int/vessel-monitoring-system>

Model / Approved MTU Type	Manufacturer	Comm System	Service Provider
750VMS	Faria - Watchdog	FARIA_WATCHDOG	Speedcast
750VMS SB	Faria - Watchdog	FARIA_WATCHDOG	Speedcast
750VMS W/VTerm	Faria - Watchdog	FARIA_WATCHDOG	Speedcast
CLS TRITON	CLS OROLIA	HALIOS/IRIDIUM	CLS
CLS TRITON ADV	CLS OROLIA	HALIOS/IRIDIUM	CLS
LEO	CLS ELTA	HALIOS/IRIDIUM	CLS
Thorium TST-100	CLS KENWOOD	HALIOS/IRIDIUM	CLS
ELB 2000	SATLINK	INMARSAT STDC	Speedcast
ELB2004	SATLINK	INMARSAT STDC	Speedcast
FELCOM10	Furuno	INMARSAT STDC	Speedcast
FELCOM12	Furuno	INMARSAT STDC	Speedcast
FELCOM15	Furuno	INMARSAT STDC	Speedcast
FELCOM16	Furuno	INMARSAT STDC	Speedcast
FELCOM18	Furuno	INMARSAT STDC	Speedcast
FELCOM19	Furuno	INMARSAT STDC	Speedcast
H1622D	Sailor	INMARSAT STDC	Speedcast
JUE-75C	JRC	INMARSAT STDC	Speedcast
JUE-75C-FFA	JRC	INMARSAT STDC	Speedcast
JUE-85	JRC	INMARSAT STDC	Speedcast
JUE-87	JRC	INMARSAT STDC	Speedcast
JUE-95C	JRC	INMARSAT STDC	Speedcast
JUE-95VM	JRC	INMARSAT STDC	Speedcast
NERA MINI-C	SATLINK	INMARSAT STDC	Speedcast
RSS405A	Anritsu	INMARSAT STDC	Speedcast
Sailor 3027D	Thrane & Thrane	INMARSAT STDC	Speedcast
Sailor 6140	Thrane & Thrane	INMARSAT STDC	Speedcast
Sailor 6150	Thrane & Thrane	INMARSAT STDC	Speedcast
TNL 7001	Trimble	INMARSAT STDC	Speedcast
TNL 7002	Trimble	INMARSAT STDC	Speedcast
TNL 8001	Trimble	INMARSAT STDC	Speedcast
TNL7005	Trimble	INMARSAT STDC	Speedcast
TT-3020C	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3022D	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3026	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3026D	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3026S	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3027M	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3027S	Thrane & Thrane	INMARSAT STDC	Speedcast
TT-3062D	Thrane & Thrane	INMARSAT STDC	Speedcast
SKYMATE I1500 VMS	SkyMate Inc.	IRIDIUM	SkyMate Inc.