

TTCAA AIR TRAFFIC SERVICES & AIR NAVIGATION SERVICES SAFETY

OVERVIEW OF SEARCH AND RESCUE SERVICES (SARs) IN TRINIDAD AND TOBAGO AND THE PIARCO FIR (ANI/WG/SAR/TF/1 - IP06)

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19 September 2019



ICAO Definition of SAR

“The performance of distress monitoring communication, coordination and search and rescue functions, initial medical assistance or medical evacuation, through the use of public and private resources, including cooperating aircraft, vessels and other craft and installations.”

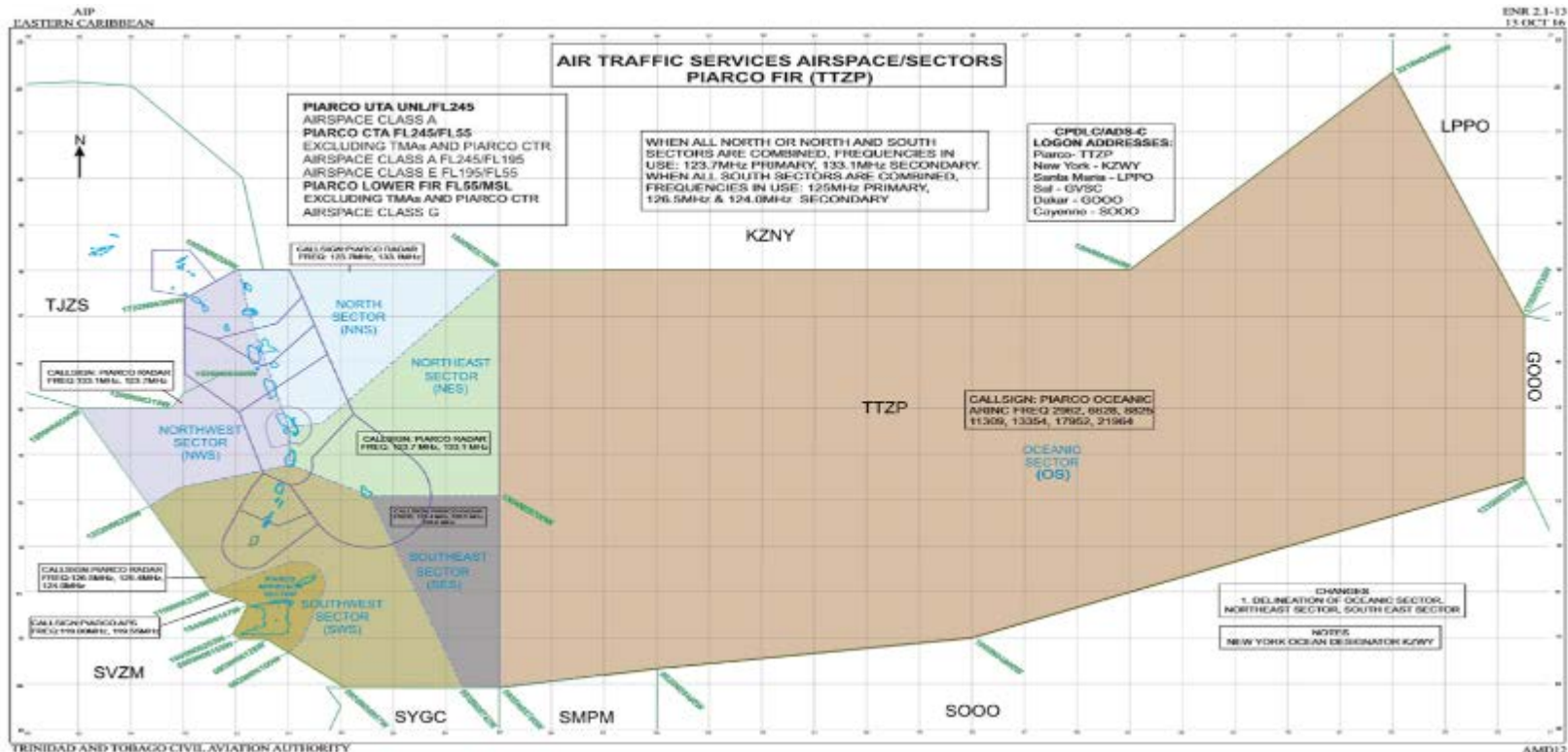


ICAO Annex 12 - SAR, Paragraph 2.1.1

“Contracting States shall, individually or in cooperation with other States, arrange for the establishment and prompt provision of SAR Services within their territories to ensure that assistance is rendered to persons in distress and such services shall be provided on a 24-hour basis.”

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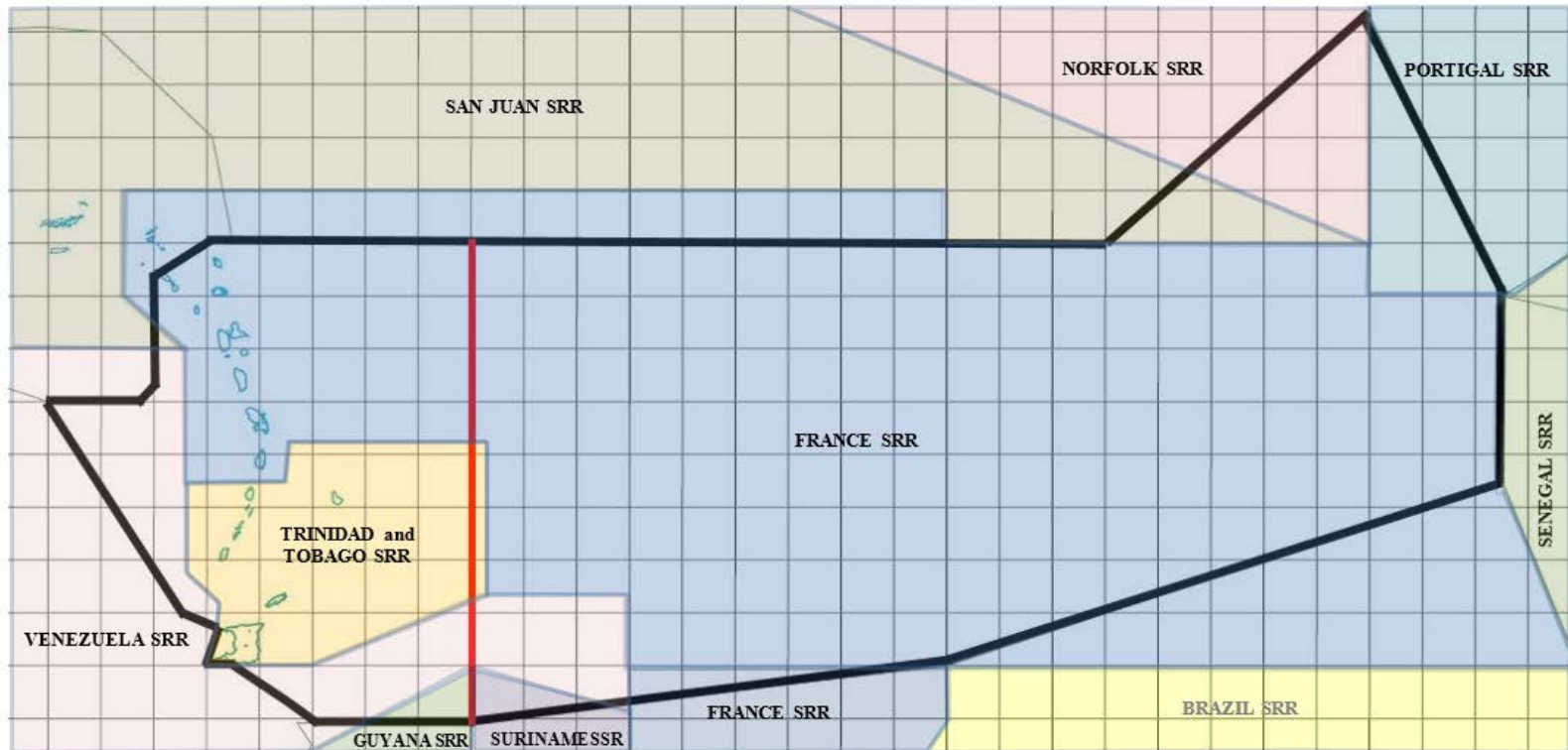
Adjacent FIRs/CTAs and TMAs



Source: Current E/CAR AIP 2013

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SRRs within and adjacent to Piarco FIR/CTA/UTA



Source: Adapted from <https://sarcontacts.info/contacts/trinidad-and-tobago-coast-guard-ttcg-5224/>

Note: This diagram is not drawn to scale

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RCC and RSCs within Piarco FIR

NAME AND TYPE OF SAR FACILITY	ADDRESS	CONTACT NUMBERS	Aeronautical Fixed Service (AFS) CONTACT
Piarco RCC	Trinidad and Tobago Civil Aviation Authority Caroni North-Bank Road Piarco International Airport Piarco, Trinidad West Indies	Tel:+(868) 669 4852 /4380 Fax:+(868) 669 4259 /1716	TTPPYCYX
Antigua RSC	Antigua and Barbuda Defence Force (ABDF) Deep Water Harbour St John's Antigua West Indies	Tel: (268) 462-0671 Fax: (268) 462-2842	TAPAYCYX
Barbados RSC	Civil Aviation Division Air Traffic Service Building Grantley Adams International Airport Bridgetown, Barbados West Indies	Tel: +(246) 428-0956/7101 Ext 4214 Fax: (246) 428-2539	TBPBYCYX
Fort-de-France RSC	Le Lamentin - 97232 LAMENTIN (Martinique)	Tel: +05 96 42 24 24 (HJ) +05 96 42 25 24 (H24) Fax: +05 96 51 10 63 (H24)	TFFFYCYX
Guadeloupe RSC	Le Raizet - BP 460 97164 POINTE-A-PITRE CEDEX	Tel: 05 90 48 21 43 (H24) Fax: 05 90 48 21 24 (H24) 05 90 48 20 00 (HJ)	TFFRYCYX

Source: Current E/CAR AIP

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Details of RCC and related Rescue Units within Piarco FIR (cont'd)

1 NAME	2 LOCATION	3 FACILITIES	4 REMARKS
ANTIGUA AND BARBUDA COAST GUARD	ST. JOHN'S HARBOUR 1707.06N 061 51.45W	<p>ONE 65FT PATROL BOAT</p> <p>ONE 40FT PATROL BOAT</p> <p>ONE 7M Rigid Hull Inflatable Bottom (RHIB)</p> <p>TWO (2) 22FT BOSTON WHALERS</p>	<p>SPEED 22KTS 40-50 PERSONS. OPERATING RADIUS 175NM. CONSTANT WATCH HF 7850 USB VHF CH 16. VHF 121.5 MHz</p> <p>SPEED 27KTS 20-30 PERSONS. OPERATIONAL RANGE 600NM</p> <p>SPEED 35KTS 8-10 PERSONS OPERATIONAL RANGE 150NM</p> <p>SPEED 30KTS 10 PERSONS OPERATIONAL RANGE 150NM.</p>
BARBADOS COAST GUARD	HMBS WILLOUGHBY FORT 13 05.71N 059 37.05W	<p>ONE 37.5M PATROL VESSEL</p> <p>TWO 12.32M (2) UTILITY BOATS</p>	<p>MAX SPEED - 20KTS RANGE - 2500NM @ 13KTS CREW - 27 LIFE RAFTS - 03 BY 25 PERSONS MAX CASUALTIES-50 PERSONS SHIP ALONE TOTAL - 125 PERSONS (LIFE RAFTS AND SHIP)</p> <p>SPEED - 20KTS , CREW - 04 OPERATING RANGE 600 - NM MIN @ 14KTS (2 DAYS) LIFE RAFTS -01 BY 6 PERSONS (EACH BOAT) MAX CASUALTIES - 16 PERSONS (GOOD CONDITION)</p> <p>SEE BARBADOS AIP FOR MORE INFORMATION</p>
DOMINICA COAST GUARD	ROSEAU 15 18.40N 061 23.80W	<p>ONE 65FT PATROL BOAT</p> <p>ONE 40FT PATROL BOAT</p> <p>ONE 7M PATROL BOAT</p>	<p>SPEED 22KTS 40-50 PERSONS OPERATING RANGE 500NM CONSTANT WATCH HF 7850 USB VHF CH 16 VHF 121.5MHZ</p> <p>SPEED 27KTS 20-30 PERSONS OPERATIONAL RANGE 600NM</p> <p>SPEED 35KTS 8-10 PERSONS OPERATIONAL RANGE 150NM</p> <p>SPEED 30KTS 10 PERSONS OPERATIONAL RANGE 150NM</p>

Source: Current E/CAR AIP 2013



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Details of RCC and related Rescue Units within Piarco FIR

NAME 1	LOCATION 2	FACILITIES 3	REMARKS 4
		ONE 22FT BOSTON WHALER	
FRENCH AIR FORCE FWI	FORT-DE-FRANCE 1435N06100W 1435N06100W	2 HELICOPTERS (<i>Medium</i>) 1 HELICOPTER (<i>Light</i>) 2 MRG	ALL AERIAL MEANS ARE COMPLEMENTARY OR OCCASIONAL ON RSC REQUEST
GENDARMERIE		1 HELICOPTER (<i>Light</i>) 1 RESCUE VESSEL 5 RESCUE BOATS	
FRENCH COMPANIES		1 SRG	SAR AGREEMENT
CUSTOMS		2 SRG 1 RESCUE VESSEL 2 RESCUE BOATS	
CIVIL AVIATION		1 SRG 1 RESCUE BOAT	
FRENCH NAVY		4 RESCUE VESSELS	CASUAL - SEE FRENCH CAR/SAM/NAM AIP FOR MORE INFORMATION
FRENCH AIRFORCE	POINTE-A-PITRE 1616N06131W	1 HELICOPTER (<i>Light</i>)	ALL AERIAL MEANS ARE COMPLEMENTARY OR OCCASIONAL ON RSC REQUEST
GENDARMERIE		1 HELICOPTER (<i>Light</i>) 1 RESCUE VESSEL 10 RESCUE BOATS	
FRENCH COMPANIES		1 SRG 1 HELICOPTER (<i>Light</i>)	SAR AGREEMENT
CUSTOMS		1 RESCUE VESSEL 1 RESCUE BOAT	
MARITIME ADMINISTRATION		1 RESCUE BOAT	SEE FRENCH CAR/SAM/NAM AIP FOR MORE INFORMATION
GRENADA COAST GUARD	PRICKLEY BAY ST. GEORGES 12 01.00N 061 44.20W	ONE 106 FTPATROL BOAT ONE 40FT PATROL BOAT ONE 7M RHIB ONE 22FT BOSTON WHALER	SPEED 22KTS 70PERSONS OPERATIONAL RANGE 1800NM CONSTANT WATCH HF 7850 USB VHF CH 16 VHF 121.5MHz. SPEED 27KTS 20-30 PERSONS OPERATIONAL RANGE 600NM SPEED 35KTS 8-10 PERSONS OPERATIONAL RANGE 150NM SPEED 30KTS 10 PERSONS OPERATIONAL RANGE 150NM

Source: Current E/CAR AIP 2013

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Details of RCC and related Rescue Units within Piarco FIR (cont'd)

NAME 1	LOCATION 2	FACILITIES 3	REMARKS 4
ROYAL MONTserrat POLICE SERVIC E/ MARINE UNIT	PORT LITTLE BAY 16 48N 062 12W	ONE 21M FIBRE GLASS VESSEL	SPEED 30KTS MAX 26 PERSONS PLUS 6 CREW OPERATIONAL RANGE 100 NM VHF CH16 VHF 121.5MHz
ST. KITTS & NEVIS COAST GUARD	BASSETERRE 17 17.39N 062 42.39W	ONE 110FT PATROL BOAT ONE 40FT PATROL BOAT ONE 7M RHIB TWO (2) 22 FTBOSTON WHALERS	SPEED 23KTS 100 PERSONS OPERATIONAL RANGE 1800NM CONSTANT WATCH HF 7850 USB VHF CH 16 VHF 121.5MHz SPEED 27KTS 20-30 PERSONS OPERATIONAL RANGE 600NM SPEED 35KTS 8-10 PERSONS OPERATIONAL RANGE 150NM SPEED 30KTS 10 PERSONS OPERATIONAL RANGE 150NM
ST. LUCIA COAST GUARD	CASTRIES 14 10.30N 061 05.00W	ONE 82FT PATROL BOAT ONE 65FT PATROL BOAT ONE 40FT PATROL BOAT ONE 7M RHIB ONE 22FT BOSTON WHALER TWO (2) 25FT MAKO CRAFT	SPEED 22KTS 70 PERSONS OPERATING RANGE 1500NM CONSTANT WATCH HF 7850 USB VHF CH 16 VHF 121.5MHz. SPEED 22KTS 40-50 PERSONS OPERATING RANGE 500NM CONSTANT WATCH HF 7850 USB VHF CH 16 VHF 121.5MHz SPEED 27KTS 20-30 PERSONS OPERATIONAL RANGE 600NM SPEED 35KTS 8-10 PERSONS OPERATIONAL RANGE 150NM. SPEED 30KTS 10 PERSONS OPERATIONAL RANGE 150NM SPEED 40KTS 10 PERSONS OPERATIONAL RANGE 150NM.

Source: Current E/CAR AIP 2013

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Details of RCC and related Rescue Units within Piarco FIR (cont'd)

NAME 1	LOCATION 2	FACILITIES 3	REMARKS 4
ST. VINCENT & THE GRENADINES COAST GUARD	CALLIAQUA BAY 12 07.8N 061 05.0W	ONE 120FT PATROL BOAT	SPEED 22KTS 70 PERSONS OPERATING RANGE 1800NM
		ONE 44FT PATROL BOAT	SPEED 45KTS 15-20 PERSONS OPERATING RANGE 400NM
		ONE 40FT PATROL BOAT	SPEED 30 KTS 20-30 PERSONS OPERATING RANGE 600NM
		TWO 9M RHIB	SPEED 30-35KTS 12-16 PERSONS OPERATING RANGE 150NM
		ONE 7.5M RHIB	SPEED 40KTS 10-12 PERSONS OPERATING RANGE 150NM
		ONE 7 M RHIB	SPEED 30KTS 8-10 PERSONS OPERATING RANGE 150NM.

Source: Current E/CAR AIP 2013

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Details of RCC and related Rescue Units within Piarco FIR (cont'd)

1 NAME	2 LOCATION	3 FACILITIES	4 REMARKS
TRINIDAD AND TOBAGO COAST GUARD	STAUBLES BAY CHAGUARAMAS TRINIDAD 10 41 N 061 39 W	MARINE VESSELS ONE FAST PATROL BOAT	SPEED 16KTS LENGTH 60M, CAPACITY 125 AND CREW OF 37 RANGE 7000NM
		ONE OPERATIONAL VESSEL	SPEED 30KTS LENGTH 40M CAPACITY 40 AND CREW OF 28 RANGE 6000NM
		FOUR CUTTERS	SPEED 21KTS LENGTH 27M CAPACITY 30 AND CREW OF 10 RANGE 1,500NM
		TWO LAUNCH	SPEED 22KTS LENGTH 20M CAPACITY 15 AND CREW OF 6 RANGE 900NM
		FOUR LAUNCH	SPEED 28KTS LENGTH CAPACITY 10 AND CREW OF 6 RANGE 500NM
		ONE LAUNCH	SPEED 28KTS LENGTH 14M CAPACITY 15 AND CREW OF 6 RANGE 600NM
		ONE LAUNCH	SPEED 22KTS LENGTH 13M CAPACITY 10 AND CREW OF 5 RANGE 360 NM
		THREE LAUNCH	SPEED 28KTS LENGTH 13.2M CAPACITY 12 AND CREW OF 5 RANGE 500 NM
TRINIDAD AND TOBAGO AIR GUARD	PIARCO AIRPORT 103535N 0612055W	THREE RHIB	SPEED 40KTS LENGTH 6M CAPACITY 6 AND CREW OF 5 RANGE 100NM
		AIRCRAFT ONE CESSNA 402B	MAX SPEED 140KTS PASSENGER AND CREW 8 ENDURANCE 4 1/2 HRS
		ONE CESSNA 310R	MAX SPEED 140KTS PASSENGER AND CREW 6 ENDURANCE 5 HRS
		TWO C-26 FAIRCHILD	MAX SPEED 240KTS PASSENGER AND CREW 20 ENDURANCE 8 HRS
		TWO NAVAJO P-31	MAX SPEED 140KTS PASSENGER AND CREW 6 FUEL ENDURANCE 4 1/2 HRS
		HELICOPTERS THREE S-76 SIKORSKY (WINCH CAPACITY)	MAX SPEED 150KTS PASSENGER AND CREW 6 FUEL ENDURANCE 3 1/2 HRS RANGE 400NM
		FOUR BO 105 (NO WINCH CAPACITY)	MAX SPEED 110KTS PASSENGER AND CREW 6 FUEL ENDURANCE 2 1/2 HRS RANGE 300NM

Source: Current E/CAR AIP



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Cospas-Sarsat Activities

Cospas-Sarsat SPOC Arrangement USMCC



UNITED STATES DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Search and Rescue Satellite-Aided Tracking (SARSAT)
NSOF E/SPO
1315 East-West Hwy, SSMC3
Silver Spring, MD 20910

December 17, 2018

To: Mr. Alexis Brathwaite
Manager Air Traffic Services & ANS Safety
Air Navigation Services
Trinidad and Tobago Civil Aviation Authority
PO Box 2163 National Mail Centre, Golden Grove Road, Piarco

From: Mr. Mark Turner
NOAA Program Manager
Search and Rescue Satellite Aided Tracking (SARSAT)
NSOF, E/SPO53 1315 East-West Highway, Silver Spring, MD 20910



Dear Mr. Alexis Brathwaite,

The United States, as a signatory to the International Cospas-Sarsat Programme Agreement, provides distress alert and location data from the Cospas-Sarsat system to national search and rescue point of contacts (SPOC) through the USMCC. As such, we look forward to continue working with Trinidad and Tobago as a SPOC for the distribution and reception of Cospas-Sarsat distress alert data for search and rescue.



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Examples of Alert Message Analysis

Analysis of Alert Msgs: February 2019							
	Categories	Frequency	Country Origin	HEX ID	Intial Alert	CTO	Msgs
	position	213	KZNY	ADCC40FB0000315	19:13	21:15	3
				2DCC5D4718FFBFF	8:22	10:46	7
				2DCE4E5BB0FFBFF	13:31	15:31	3
			LIML	9EE9035028D34D1	9:09	Nil	1
			TVSV	AF28334135D74D1	16:42	18:45	5
				AF28334135D74D1	21:49	19:25	69
				AF28334135D74D1	10:45	16:36	20
				AF28334135D74D1	12:19	8:10	91
				AF28334135D74D1	11:12	14:05	14
Total							213
	exercises	25	KZDCZSZA				3
			LFBO				3
			LTBB				6
			SUMU				1
			WSSS				12
Total							25
	comms	2	KZDCZSZA				2
Total							2
TOTALS		240	7	5			240



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Examples of Alert Message Analysis (cont'd)

Analysis of Alert Messages: March 2019							
	Categories	Frequency	Country Origin	HEX ID	Intial Alert	CTO	Msgs
	Position	57	GLMC	4F84058020FFBFF	0:42	Nil	4
			KZNY	2DCE63315CFFBFF	23:42	1:43	3
			TFFF	2B6C871D48FFBFF	13:59	16:01	5
			TTPP	AD49965D34D35D1	2:42	4:46	7
				AD4C4FAC9C00346	21:22	3:22	4
				AD52952B42D2A45	2:30	8:30	4
				AD49965D34D35D1	23:37	2:36	22
			TVSV	AF28334135D74D1	19:28	22:09	8
Total							57
	Exercises	13	OEJD				2
			WSSS				11
Total							13
	Comms	0					0
Total							0
TOTALS		70	7	7			70



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Examples of Alert Message Analysis (cont'd)

Analysis of Alert Msgs: April 2019							
	Categories	Frequency	Country Origin	HEX ID	Intial Alert	CTO	Msgs
	position	198	ENBO	A02990CA28D34D1	14:34	16:40	4
			KZNY	ADCD04C44D40401	11:09	13:12	2
				ADCE06F23C91001	22:06	13:22	52
				ADCE06F23C91001	17:20	2:21	24
				ADCE06F23C91001	8:56	10:56	5
				ADCE06F23C91001	9:38	17:01	6
				ADCD08089840801	12:50	14:50	3
				ADCE022108C2001	9:49	Nil	2
				ADCD01456C40401	13:52	21:51	34
				2DCC752E44FFBFF	21:19	7:13	5
				2DCC752E44FFBFF	11:16	17:16	5
			MPPC	AC29D28134D34D1	11:10	Nil	2
			Nil	02186C9A61A36CC	21:31	3:31	2
			Nil	02186C9A61A36CC	21:31	4:17	2
			SYGC	DDC6432A62BDB81	16:24	Nil	6
			SVZM	E0E70CEF0C10CA1	1:20	Nil	2
			TKPK	AAA9570C34D34D1	12:50	23:07	28
			TTPP	AD49965D34D35D1	1:03	4:31	4
				AD49965D34D35D1	8:14	10:20	4
				AD4DB647AA1B95F	2:35	8:35	3
				AD4DC31812403D1	21:55	23:56	3
			TVSV	AF2A4E8CF7070D1	12:33	14:34	2
Total							198
	exercises	16	LTAA				1
			LTBB				1
			SARG				1
			UKMC				1
			WSSS				12
Total							16
	comms	4	KZDCZSA				3
			SYGC				1
Total							4
TOTALS		218	7	16			218

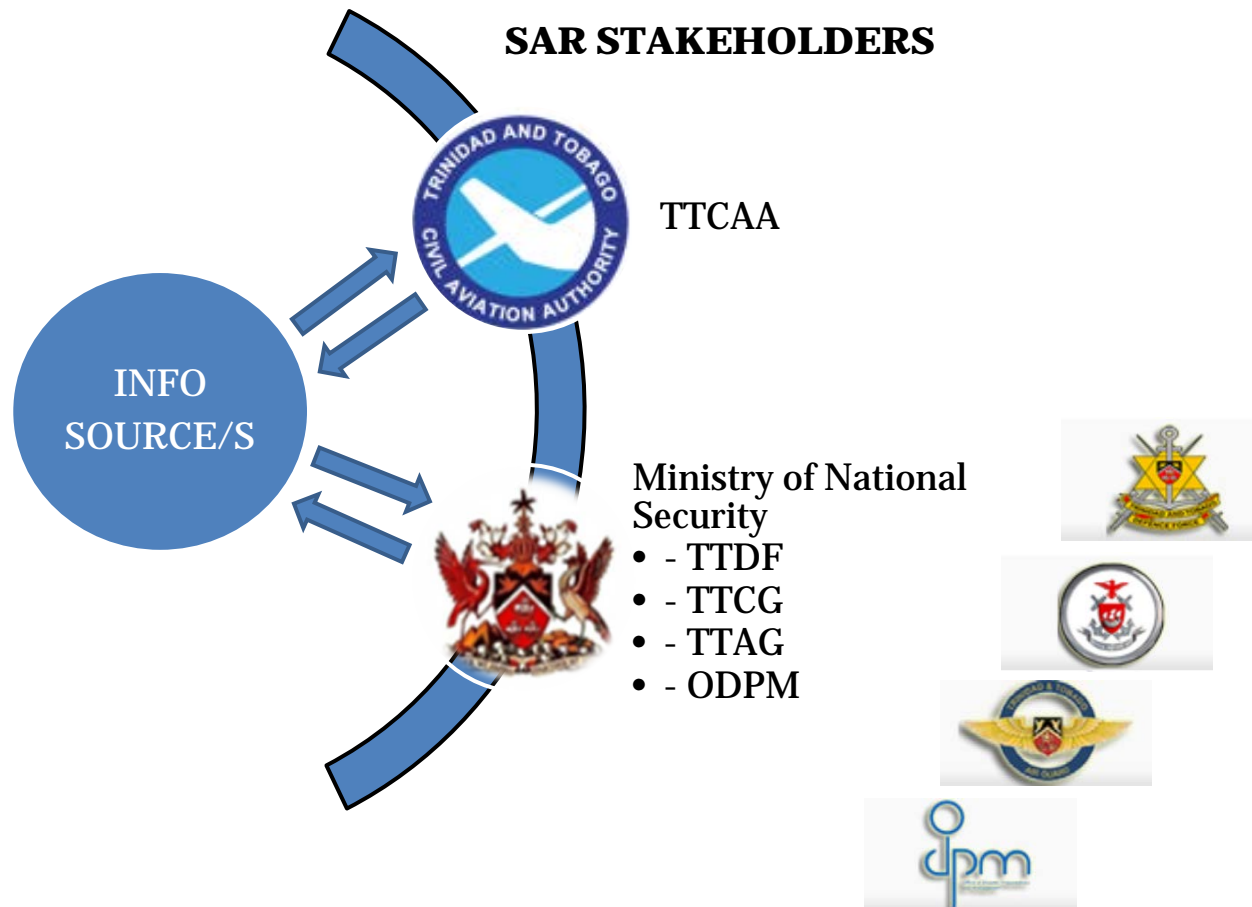


Examples of Alert Message Analysis (cont'd)

THREE MONTH AGGREGATE (FEB-APR 2019)								
		Categories						
	Month	position	exercises	comms	Msgs	Countries	HEX Ids	Avg Time Frame
	FEB	213	25	2	240	7	5	5:50
	MAR	57	13	0	70	7	7	3:23
	APR	198	16	4	198	14	16	5:34
AVERAGES		156	18	2	169	9	9	4:55

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Agencies responsible for SAR Services within T&T



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¡Gracias por su Atención!

