



SAR TRACKING SYSTEM

SAR UNIT / GTI

(Systems Technology Management)

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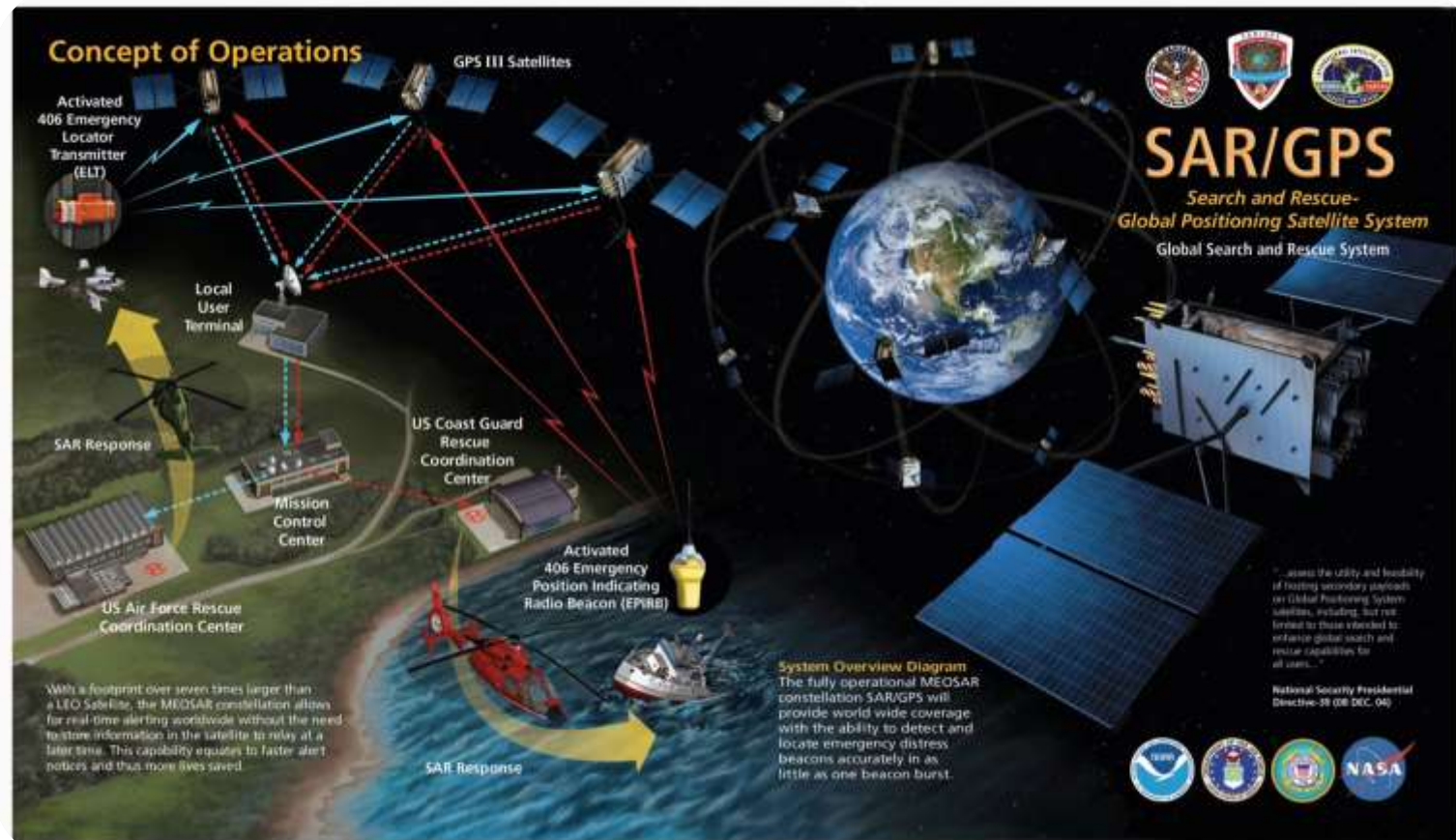
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SYSTEM OBJECTIVES

Support the management of emergency messages received by COSPAS-SARSAT, by monitoring ELT, EPIRB and PLB, alert triggers and managing the coordination of rescue activities among RCC, RSC and other related entities.

Record coordination activities between the parties involved in the messages received and manage pilot reports regarding ELT alerts reported to air traffic controllers.



Product DEMO (<http://apps.cocesna.org/SAR/servlet/sarlogin>)



Email

Password

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Main features

The screenshot displays a web interface for SAR (Search and Rescue) messages. At the top right, the user is logged in as 'admin' (Administrator) with the email 'COXEDNA/RCO/COXEDNA'. A sidebar on the left contains a 'Menu title' and several navigation options: Mensajes SAR, Bitácora, Reportes ELT, Registro de Reportes, Contactos, and Outbox. The main content area is titled 'Mensaje SAR :: 25827' and features a satellite map of the Caribbean Sea and surrounding landmasses. A red location pin is visible on the northern coast of Venezuela. Below the map, there are tabs for 'General', 'Bitácora', 'Status Report', 'Países Asignados', 'Entidades Asignadas', and 'Outbox'. The 'General' tab is active, showing the following details:

- Message Ref:** No. 25827, Ref. 75813
- Detected At:** Detected: 01 SEP 13, Hour: 1429
- País:** Honduras
- Acronimo:** Bomberos (Unidad de Apoyo), FFAA (Unidad de Apoyo)
- Mensaje SAR completo:**
 - IND015 291712
 - DD MHTGYCYX
 - 031443 KZDCZSA
 - /25827 0000/3640/13 246 1443
 - /185/CNAM
 - 1. DISTRESS COSPAS-SARSAT INITIAL ALERT
 - 2. MSG NO. 25827 USMCC REF 75813
 - 3. DETECTED AT 01 SEP 13 1429 UTC BY SARSAT 08

Introduction

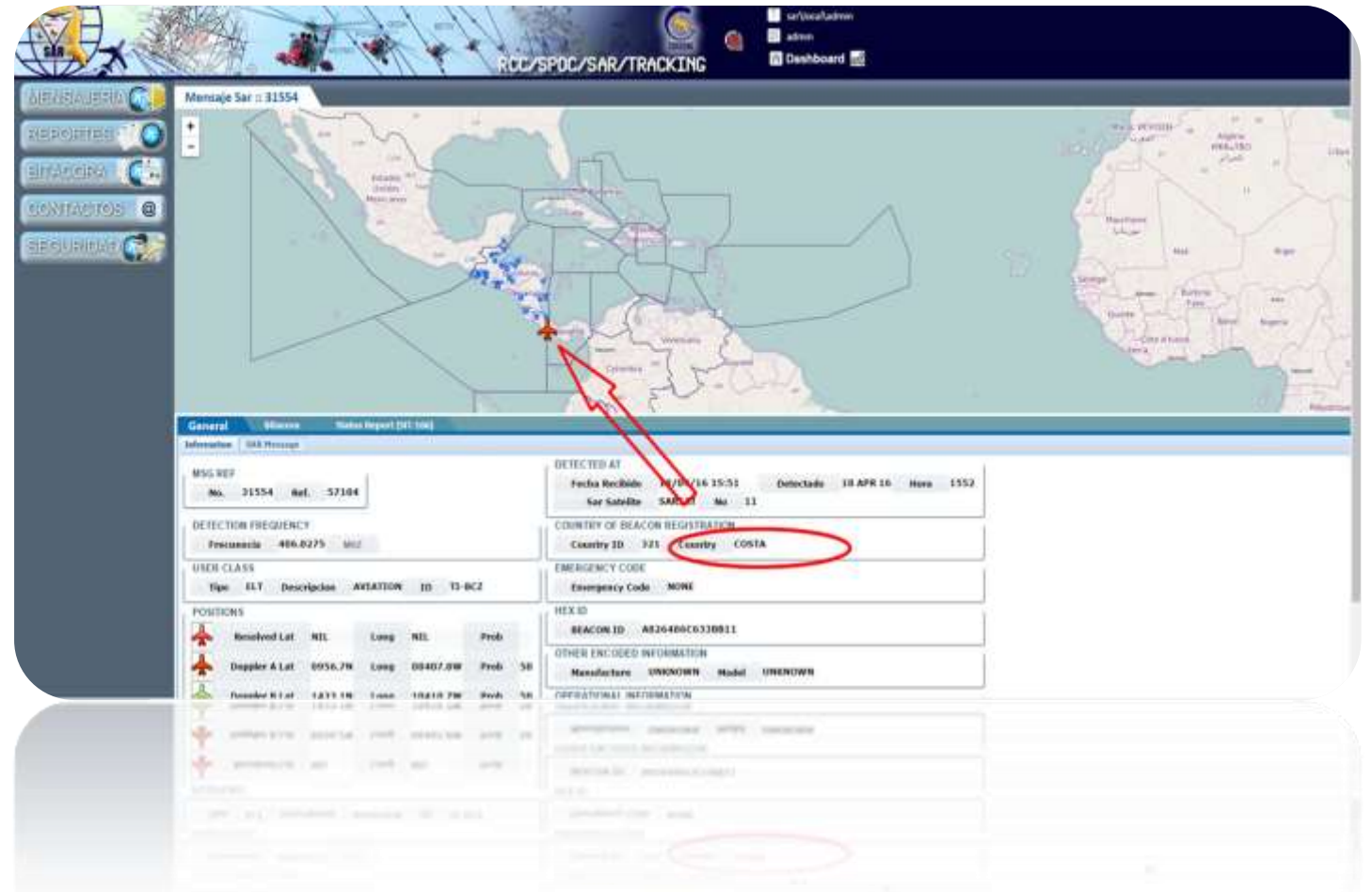
The development of the SAR Tracking System is in line with and part of COCESNA's strategic plan on focusing SW development on COCESNA's Core Business (Safety and Efficiency).

The final product is a result of the joint effort of ACNA, ATS/SAR Unit and GTI. The first system version has been implemented in CENAMER CONTROL and the new version will shortly be available in May 2016 to all central america region.



Main features

1. The messages submitted to RCC are assigned to the States by the SAR/STS System. Those messages are immediately received by the States, so that they can reach appropriate coordinations.
2. The system submits the messages through AFTN/AMH. However, the SAR/TS system manages to send the information in a more effective way, adding value to the coordination between the operational units.
3. The coordination of the messages received from RCC can be monitored by the system administrator of each state. SAR managers' coordination information is displayed by means of logs and SIT-166 case closures.



The screenshot displays the RCC/SPDC/SAR/TRACKING web interface. At the top, there is a navigation bar with a logo on the left and user information (sr/veca/admin) and a dashboard icon on the right. Below the navigation bar is a sidebar with buttons for MENSAJERIA, REPORTES, SITACIEM, CONTACTOS, and SEGURIDAD. The main area features a map of Central America with a red star indicating a location in Costa Rica. Below the map is a detailed message report for message number 31554. The report includes the following information:

General		Status Report (SIT-166)	
Information: SAR Message			
MSG REF		DETECTED AT	
No. 31554	Ref. 57104	Fecha Recibida: 18/04/16 15:51	Detectado: 18 APR 16 Hora: 1552
DETECTOR FREQUENCY		COUNTRY OF BEACON REGISTRATION	
Frecuencia: 406.0275	MHz	Country ID: 321	Country: COSTA
USER CLASS		EMERGENCY CODE	
Type: ELT	Descripcion: AVIATION ID: Y3-BC2	Emergency Code: MOWE	
POSITIONS			
Type	Received Lat.	Long.	Prob.
✈	0956.7N	08407.0W	50
✈	1.831 1N	10.818 7W	50
✈	0956.7N	08407.0W	50
✈	0956.7N	08407.0W	50
OTHER ENCODED INFORMATION			
Manufacturer: UNKNOWN Model: UNKNOWN			
OPERATIONAL INFORMATION			
OPERATIONAL STATUS: UNKNOWN			
OPERATIONAL MODE: UNKNOWN			
OPERATIONAL STATUS: UNKNOWN			
OPERATIONAL MODE: UNKNOWN			
OPERATIONAL STATUS: UNKNOWN			
OPERATIONAL MODE: UNKNOWN			

Primary Features

The SAR/TRACKING/SYSTEM has other features such as:

1. Log management
2. Contact book
3. Generation of air traffic controller's reports using ELT
4. Coordination of ELT reports
5. User management
6. Submission of ACK to COSPAS-SARSAT
7. User-friendly display of information

Main advantages

Automatic transmission and coordination of alert messages / Safety

More effective coordination between RCC, RSCs and related entities.

Interface customised according to the needs of operational users

Follow up of RSC's and related entities' activities

New message alerts

Access to the application from anywhere and from any device thanks to Web technology.

GTI
(Systems Technology Management)

Thank You!!!