



SAR TRACKING SYSTEM

eXpert-SAR –TRACKING SYSTEM

Introduction

- ❖ coordination in less than 5 seconds which it means that the time gained passes to the operating units which reduces the search time between 70 and 80%.
- ❖ There is no tool in the world like this to the issue of search and rescue.
- ❖ This Innovation Has Been Filed In The Nasa Goddard - Space Flight Center.
- ❖ as it has been presented to the ICAO, Mr. Victor Hernandez, who is the SAR ICAO expert,
- ❖ Also in the NOAA (National Oceanic and Atmospheric Administration)/Cuba/Dominic Republic/Trinidad and Tobago/Panamá and others.

SAR
Tracking
System

eXpert-SAR
Tracking
System



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. Its main objective is to allow all search and rescue coordination carried out in the shortest possible time.

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



Main features

1. The messages submitted to RCC are assigned to the States by the SAR/TS 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.

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 and security levels
6. Submission of ACK to COSPAS-SARSAT
7. User-friendly display of information
8. Emergency levels:
ALERFA. Key word used to designate an alert phase.
INCERFA. Key word used to denote a phase of uncertainty
DETRESFA. Key word used to designate a phase of danger.
9. Meteorological information

Main features

The screenshot displays the SAR TRACKING SYSTEM web interface. The header includes the system logo, the user name 'josram2', the role 'Administrator', and the organization 'COCESNA/RCC/CENAMER'. A search bar is present with the text 'Buscar en No. valor Comienza con'. A sidebar menu on the left lists various navigation options.

Menu Principal

- Dashboard
- Mensajes SAR
- Bitácora
- Reportes ELT
- Registro de Reportes
- Contactos
- ACK Enviados

Mensaje SAR

No.	Ref.	Detected	Hour	Country ID	Country	Type	Description	ID	Emergency Code	Países	Entidades
32938	75495	13 OCT 16	2149	332	GUATEMALA	ELT	SERIAL	265086	NONE	GUATEMALA	✓ ⓘ ⓧ
32937	75480	13 OCT 16	2016	366	USA	ELT	SERIAL	162116	NONE	HONDURAS	✓ ✓ ⓘ
32939	75480	13 OCT 16	2157	366	USA	ELT	SERIAL	162116	NONE	HONDURAS	✓ ⓘ ⓧ
32934	75446	13 OCT 16	1428	366	USA	PLB	SERIAL	297	NIL	Otros	✓ ⓘ ⓧ
32936	75446	13 OCT 16	1833	366	USA	PLB	SERIAL	297	NIL		✓ ⓘ ⓧ
32899	75286	12 OCT 16	0217	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32900	75286	12 OCT 16	0217	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32901	75286	12 OCT 16	0311	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32902	75286	12 OCT 16	0357	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32904	75286	12 OCT 16	0735	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32906	75286	12 OCT 16	0916	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32907	75286	12 OCT 16	1053	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32908	75286	12 OCT 16	1141	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32909	75286	12 OCT 16	1232	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ
32910	75286	12 OCT 16	1232	359	ELSALVADOR	ELT	SERIAL	90	NIL		✓ ⓘ ⓧ
32911	75286	12 OCT 16	1321	359	ELSALVADOR	ELT	SERIAL	90	NIL	EL SALVADOR	✓ ✓ ⓘ

Main features

Menu Principal

- Dashboard
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Mensaje SAR ::
32899
Mensaje SAR

General

ACK/AFTN/Email

Bitácora

Países Asignados

Entidades Asignadas

Feedback to COSPAS-SARSAT

Message Ref

No. 32899

Ref. 75286

Detected At

Detected 12 OCT 16

Hour 0217

Satellite Info

Asigne Países al mensaje: +

Pais ▾

EL SALVADOR

Asigne Unidades al mensaje:

Unidades Operativas ▾

Tipo








Mensajes Relacionados

No.	Detected	Hour	Received
32933	13 OCT 16	1045	10/13/16 06:21 AM
32932	13 OCT 16	1129	10/13/16 05:30 AM
32931	13 OCT 16	1028	10/13/16 04:31 AM
32930	13 OCT 16	0905	10/13/16 03:06 AM
32929	13 OCT 16	0724	10/13/16 01:28 AM
32928	13 OCT 16	0430	10/12/16 10:54 PM
32927	13 OCT 16	0336	10/12/16 09:46 PM
32926	13 OCT 16	0250	10/12/16 09:01 PM
32925	13 OCT 16	0157	10/12/16 08:08 PM

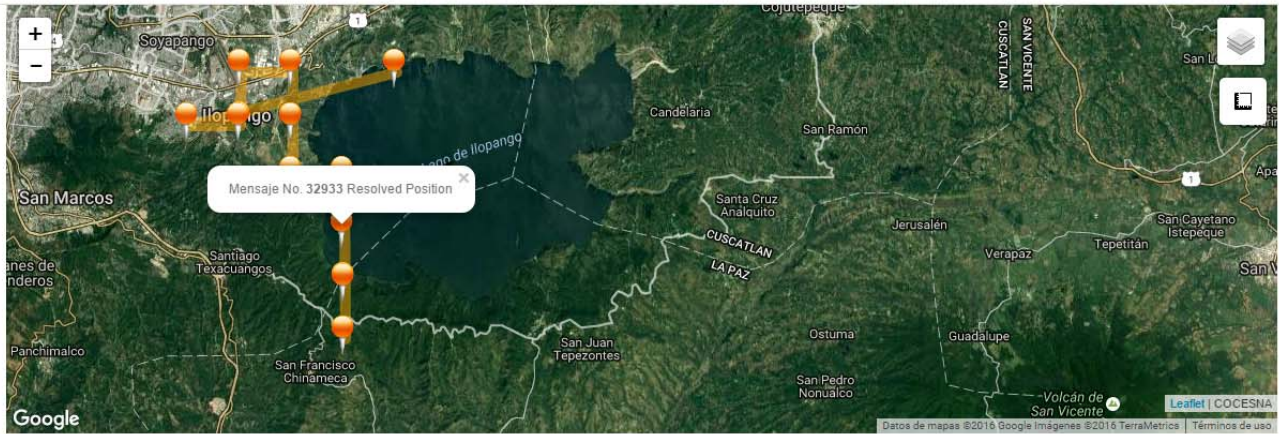


Main features

Menu Principal

-  Dashboard
-  Mensajes SAR
-  Bitácora
-  Reportes ELT
-  Registro de Reportes
-  Contactos
-  ACK Enviados

Mensaje SAR :: 32899
Mensaje SAR



General
ACK/AFTN/Email
Bitácora
Países Asignados
Entidades Asignadas
Feedback to COSPAS-SARSAT

Retransmisión de Mensaje

Enviar ACK
Re-Transmitir AFTN
Enviar a Email

Id	Usuario	Prioridad	Destinatarios	Contenido	Fecha/Hora Ingreso	Fecha/Hora Envío
17947	sartrackingsystem\local\jmendoza	SS	KZDCZSZA	RESPONSE MESSAGE No.32899 Ref.75286 KZDCZSZA TKS	10/11/2016 08:20:59 PM	10/11/2016 08:21:04 PM
17949	sartrackingsystem\local\randino	SS	KZDCZSZA	RESPONSE MESSAGE No.32899 Ref.75286 KZDCZSZA TKS	10/11/2016 09:14:06 PM	10/11/2016 09:14:10 PM
17952	sartrackingsystem\local\randino	SS	KZDCZSZA	RESPONSE MESSAGE No.32899 Ref.75286 KZDCZSZA TKS	10/11/2016 10:07:41 PM	10/11/2016 10:07:45 PM

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.

Super Important Advantage

ICAO recommends that data to facilitate location should be transmitted as soon as an emergency is detected on board, for commercial aeroplanes flying over oceanic or remote areas.

In this case, the SAR Tracking System is a programme that receives direct signals from COSPAS SARSAT satellite constellation, allowing the location of aircraft in the shortest time possible. This reduces rescue operation costs when an aircraft accident occurs, since the aircraft is located by means of point coordinates, facilitating location, coordination and rescue. This also increases the possibility of finding people alive, due to the short time used by the programme to re-transmit the messages to the different points of contact in any region of the world.

ICAO recommends that coordination should be done in the first 15 minutes for the SAR operation including operational or support units do not exceed 25 minutes, **with the eXpert -SAR -TRACKING SYSTEM can be achieved to make this coordination in less than 5 seconds** which it means that the time gained passes to the operating units which reduces the search time between 70 and 80%.



Product DEMO



Email

Password

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THANK YOU!!!