

## Aircraft Tracking GADSS Update

FSMP September 2016

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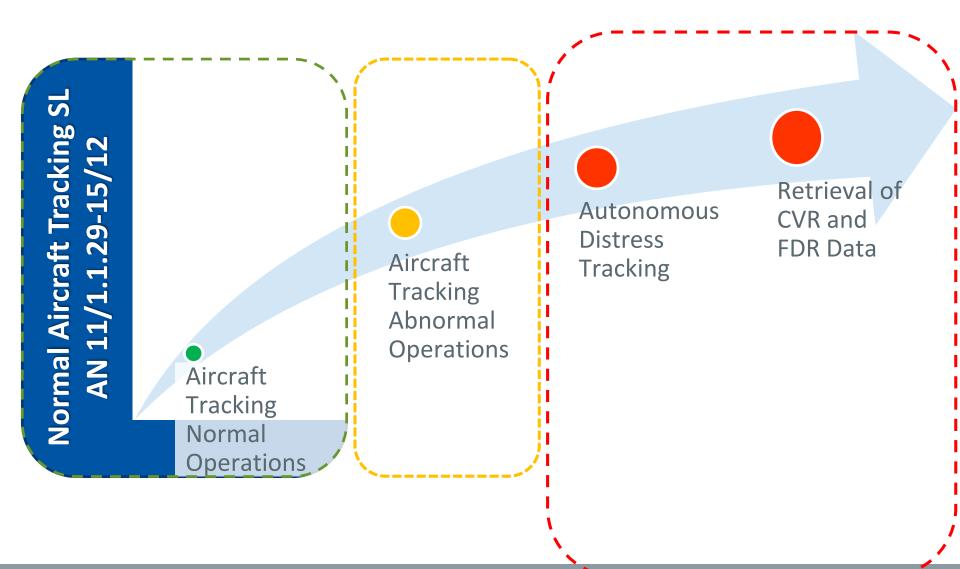






- Where are we
- Where are we going
- How are we planning to get there







## **Normal Tracking SARPs**



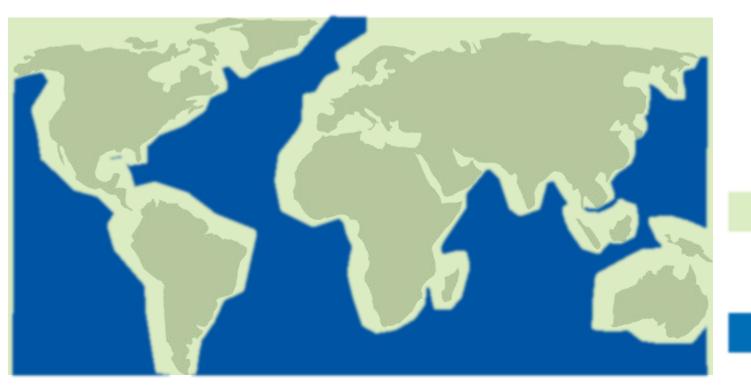
Performance-based Standards and recommended practices for normal flight tracking

- No change to ATC procedures
- Not technology-specific
- Establish operator responsibility to track
- Recommendation to track where ATC gets position information at more than every 15 min
  - 27 000 Kg and more than 19 Seats
- Standard to track in oceanic areas where ATC gets position information at more than every 15 min
  - 45 500 Kg and more than 19 Seats
- Data retention for last aircraft location purposes





## **Graphical Representation**



Requirement to track

**Recommendation** to track at 15 minute intervals

**Requirement** to track at 15 minute intervals



### **Distress Tracking SARPs**



Performance-based Standards and recommended practices for distress flight tracking

- Not technology-specific
- Location of an accident site within 6 NM
- Active
  - On flight behaviors that can lead to an accident
  - Manually from the air
- Power and position information autonomous from other a/c systems
- Applies to new aeroplanes from 2021
- Incentive for early adoption as an alternative to second ELT

#### **<u>Timelines</u>**

#### January 2015

 Preliminary review by ICAO ANC

#### May 2015

State Letter

#### October 2015

Final review by ICAO ANC

#### March 2016

Adopted

#### July 2016

Effective

#### January 2021

- Applicable



#### AUTONOMOUS



6 NM

Aircraft behavior event that if left uncorrected, can result in an accident.

Squawk at one minute intervals



#### **RESCUE COORDINATION CENTER**

### **Adopted SARP**





#### **DISTRESS TRACKING**

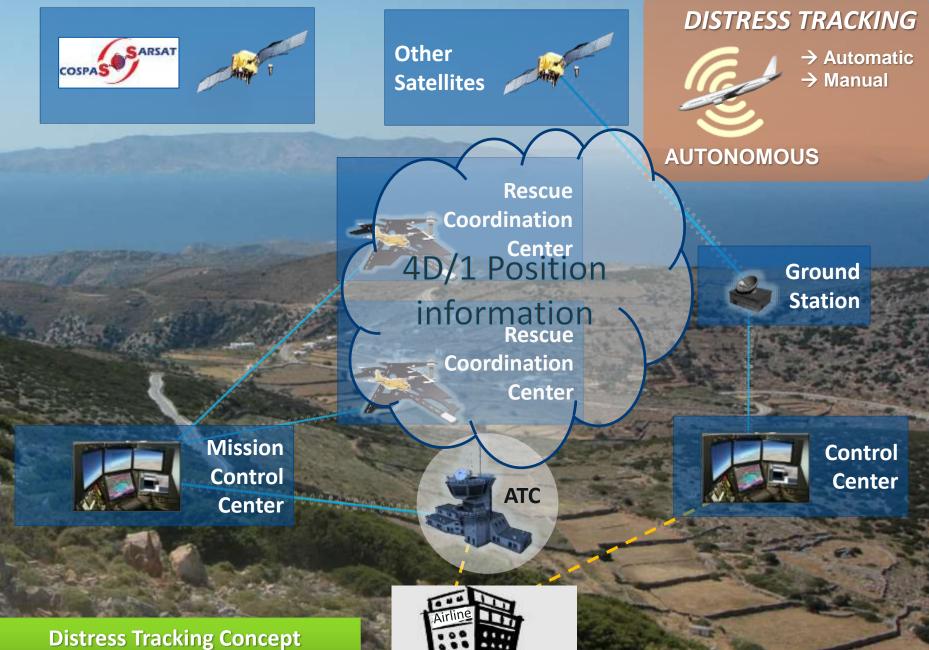
 $\begin{array}{c} \rightarrow \text{Automatic} \\ \rightarrow \text{Manual} \end{array}$ 

AUTONOMOUS

Local User Terminal

Mission Control Center Rescue Coordination Center 4D/1 Position information Rescue Coordination Center

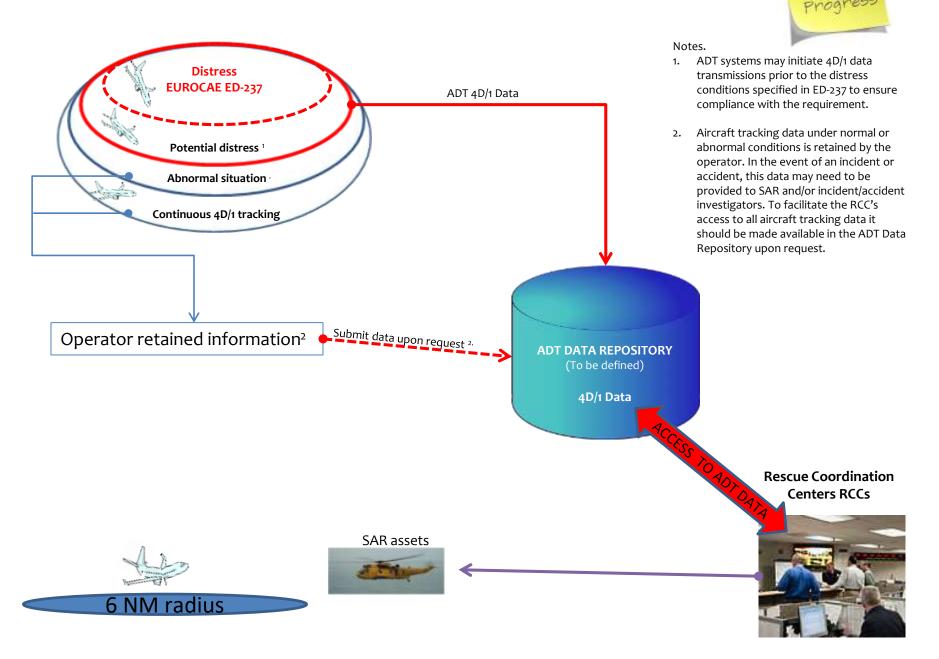
Distress Tracking Concept GADSS CONCEPT



**GADSS CONCEPT** 

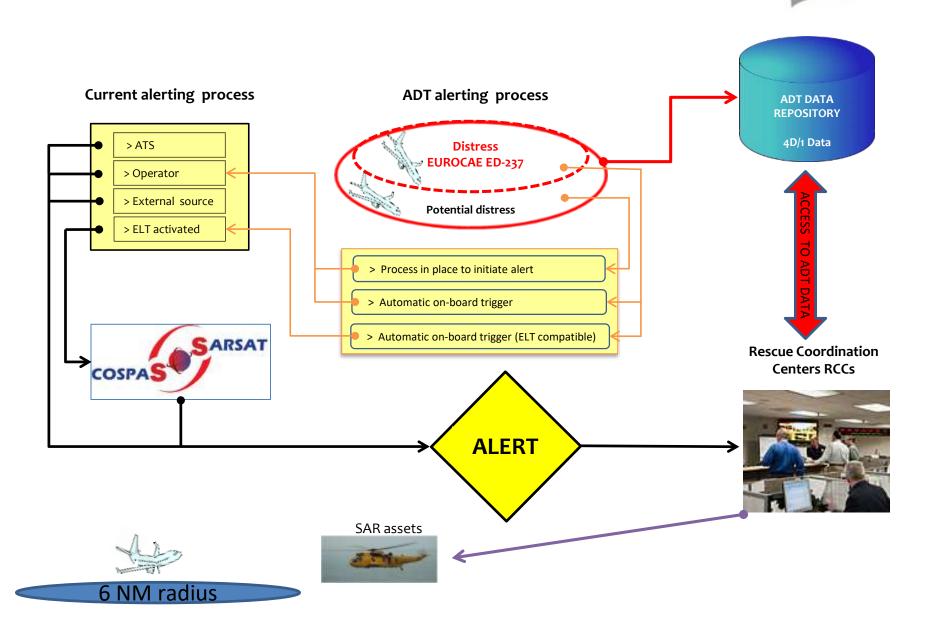


#### ADT DATA RETENTION LOCATION AND ACCESS



#### ADT DISTRESS ALERTING

Work in Progress





# What to Expect

- GADSS Advisory Group
  - Updating the CONOPS
    - SL comments and suggestions
    - Latest developments in technology
  - Identification additional provisions
    - Other Annexes
    - PANS
  - Next version of GADSS (Ver 6.0)
    - Expected to be published end of 2016



