

Aircraft Tracking GADSS Update

FSMP September 2016

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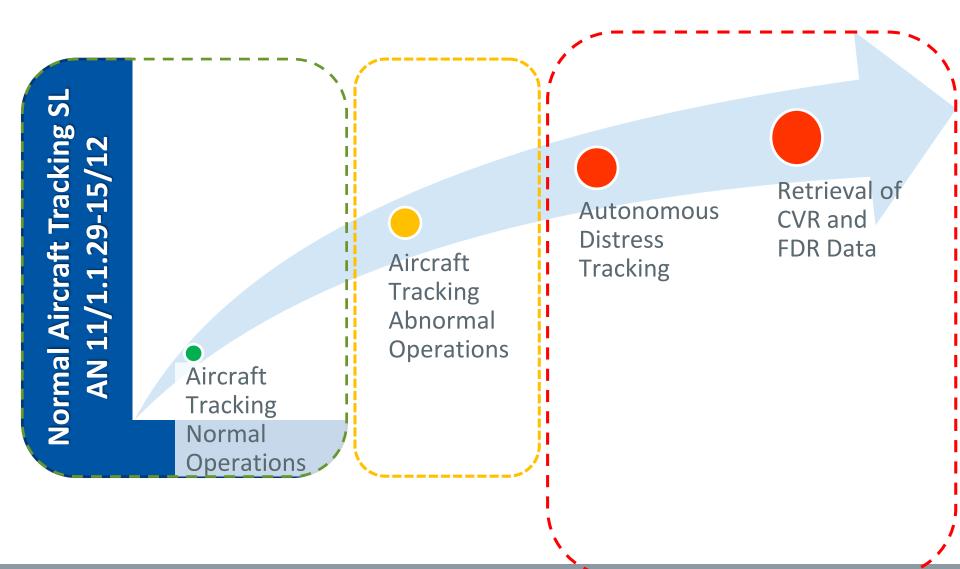






- Where are we
- Where are we going
- How are we planning to get there







Normal Tracking SARPs



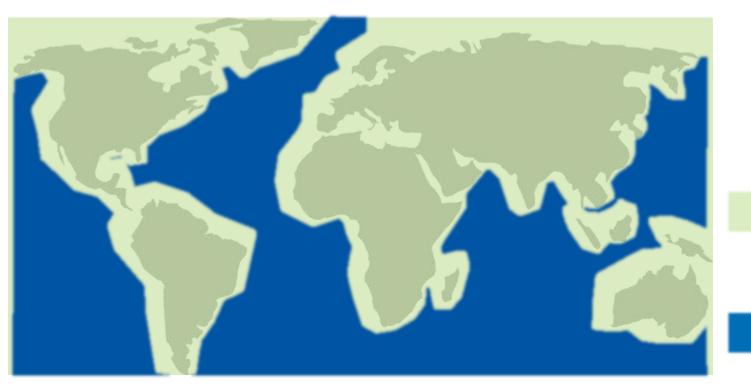
Performance-based Standards and recommended practices for normal flight tracking

- 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

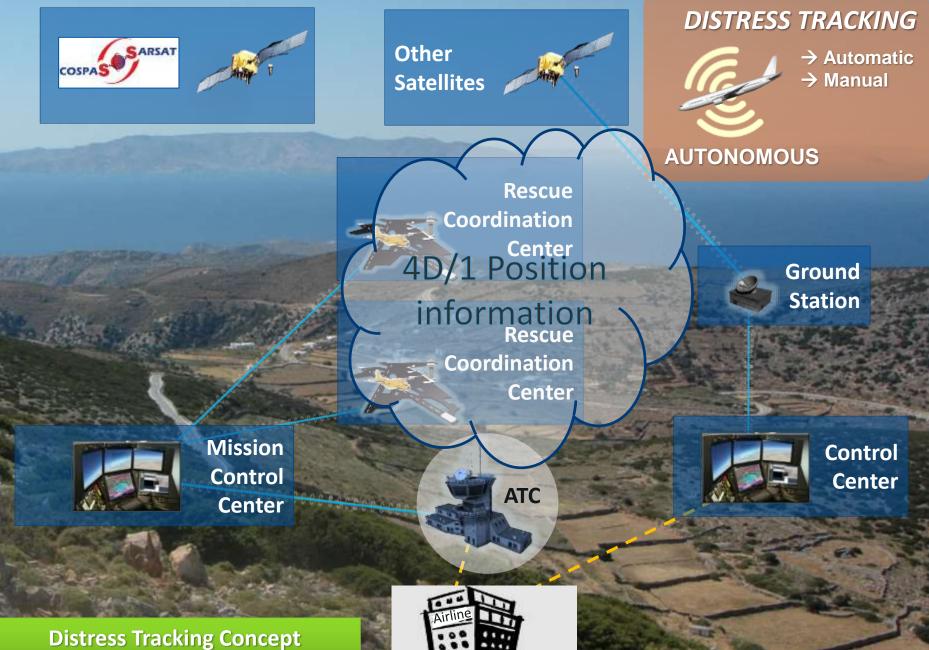
 $\begin{array}{c} \rightarrow \text{Automatic} \\ \rightarrow \text{Manual} \end{array}$

AUTONOMOUS

Local User Terminal

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

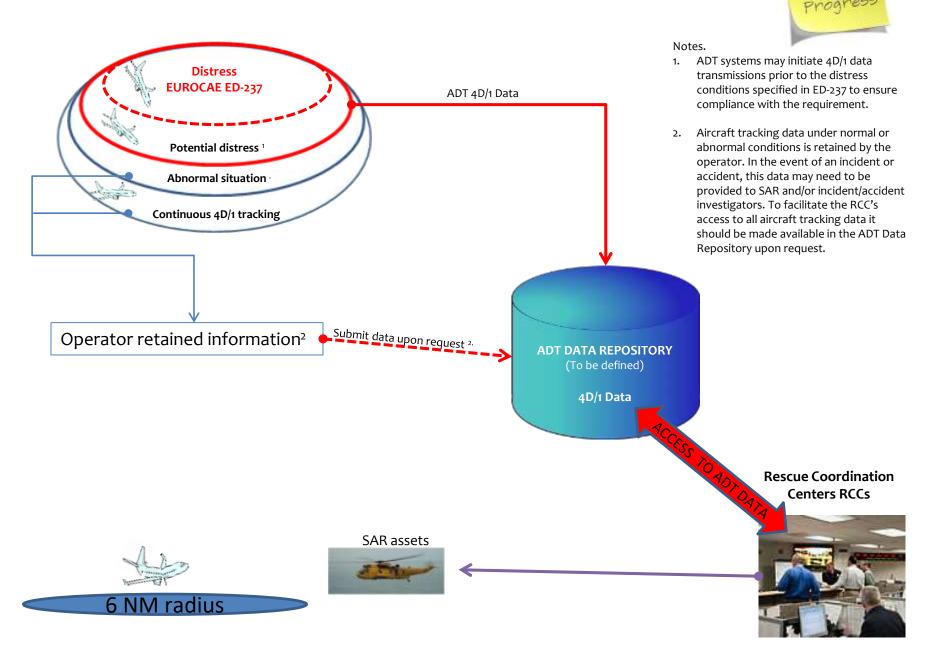
Distress Tracking Concept GADSS CONCEPT



GADSS CONCEPT

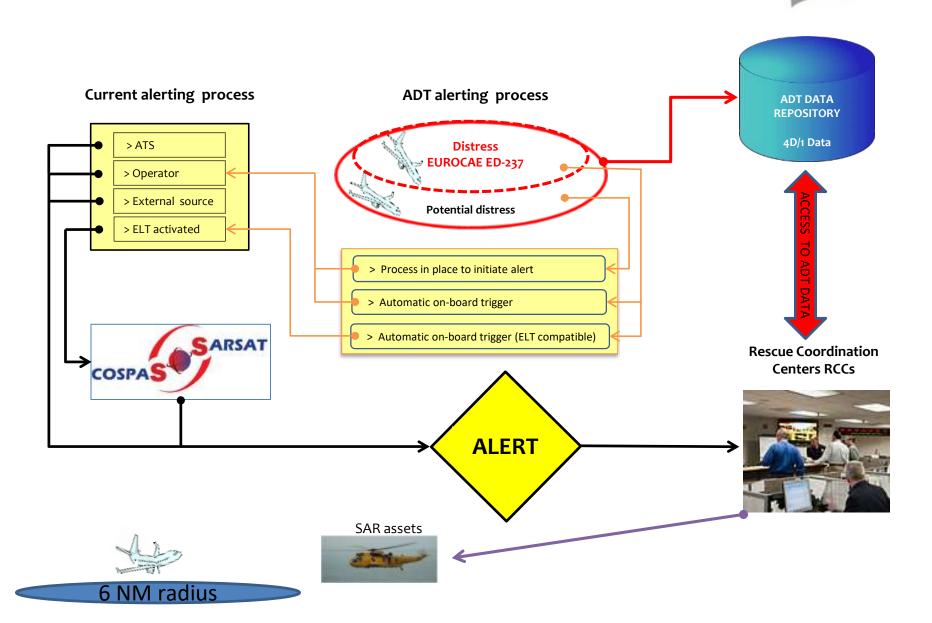


ADT DATA RETENTION LOCATION AND ACCESS



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



