



SUPPORTING  
EUROPEAN  
AVIATION

# LADR - Location of an Aircraft in Distress and Operational Control Directory (Ops Control)

## SAR – Workshop

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EUROCONTROL



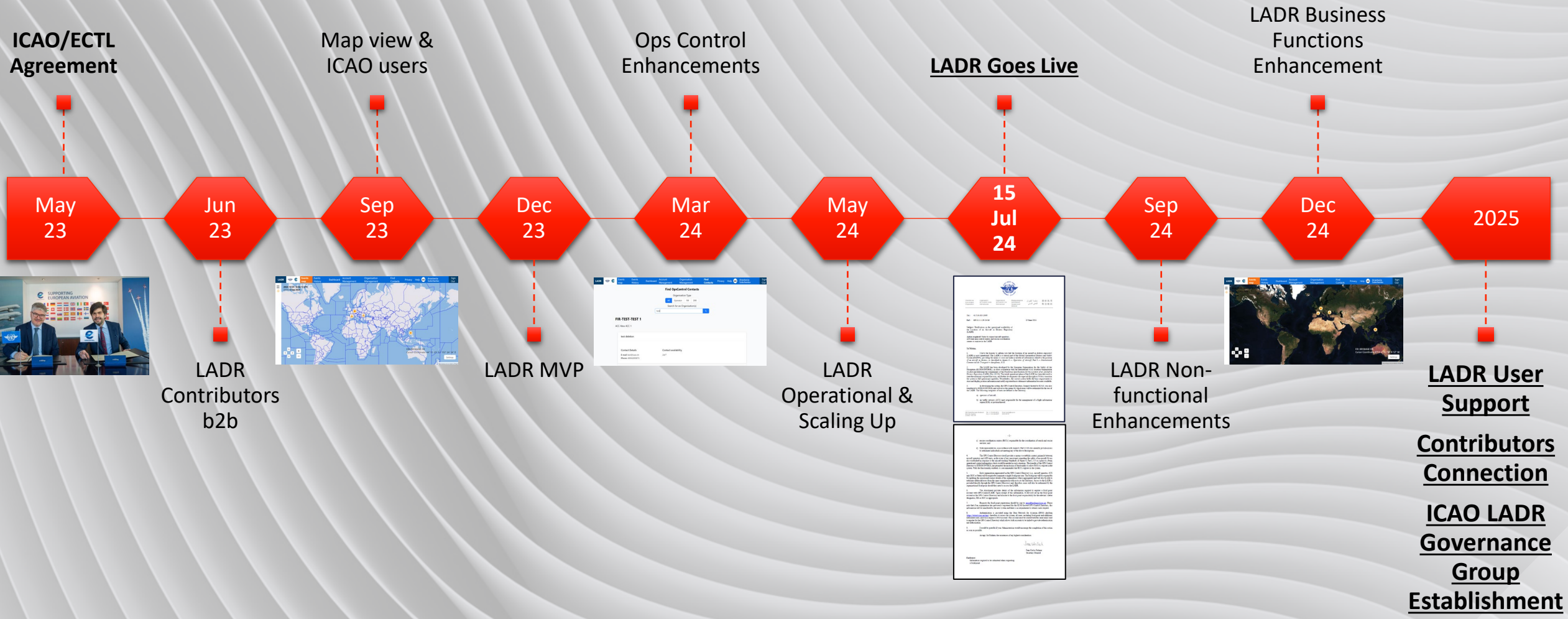
# LADR Agreement

- ICAO endorsed EUROCONTROL, as a developer and host
- Scope:
  - LADR
  - Ops Control
- EUROCONTROL & ICAO Co-administrate LADR



ICAO SecGen Juan Carlos Salazar and EUROCONTROL DG Raul Medina signing LADR Agreement, Brussels, EUROCONTROL HQ, 25 May 2023

# LADR Development, Current Status, Timeline



# LADR Background



Part of ICAO GADSS



ICAO Doc 10150 Describes LADR Specifications



Key Principles:

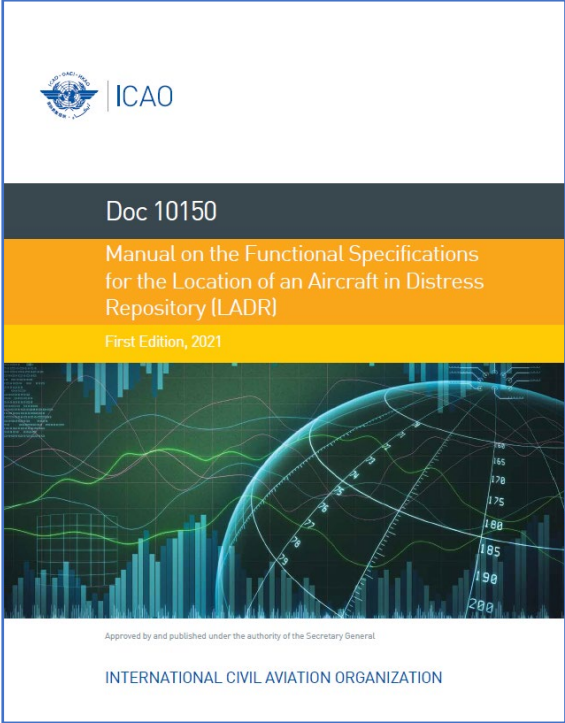
Contributors Provide ADT Data

Users Receive Information Based on Their Rights



Operational Stakeholders: Involved Parties Have the Same Details of the Last Known Position

# LADR: How Does It Work



# LADR Technical Status

- Operational since: 10 June 2024
- ICAO State Letter issued: 25 June 2024
- Access Link: <https://ladr.eurocontrol.int/ops/frontend>
- Access Requests:  
By contacting ICAO at:  
 [aircrafttracking@icao.int](mailto:aircrafttracking@icao.int)



LADR Ops Release 6.0.4



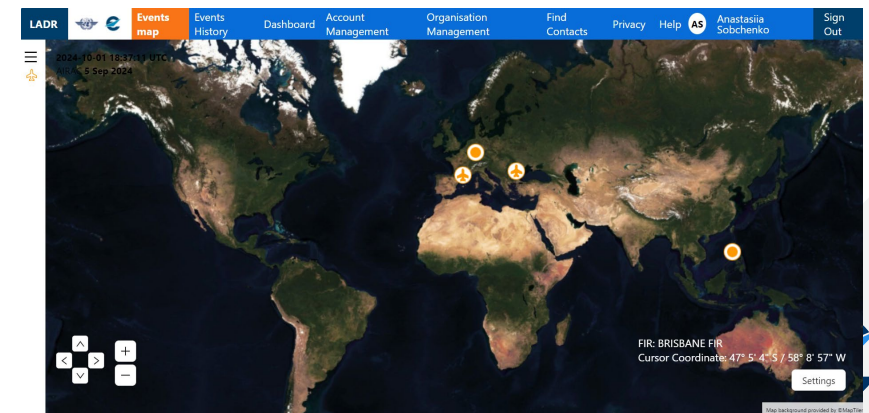
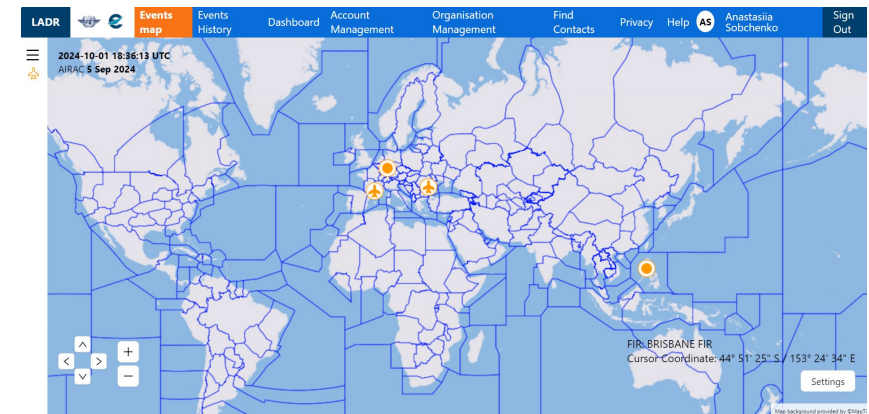
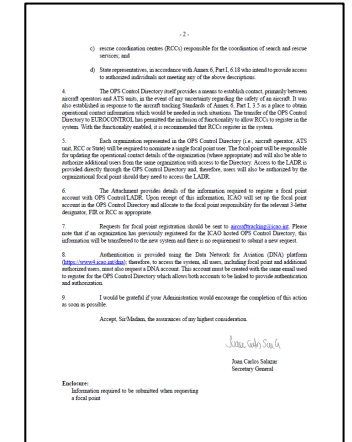
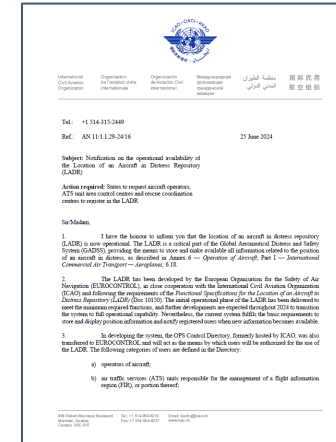
LADR Ops Manual v.1.4. – *new version coming shortly*



LADR 24/7 Monitoring



Two Contributors connected to LADR Ops



# LADR Stakeholders



**LADR  
Administrator**

LADR Administrator  
- a responsibility  
jointly held by ICAO  
and EUROCONTROL



**LADR  
Contributors**

LADR Contributors -  
who supply ADT  
data to LADR



**LADR  
Data Users**

LADR Data Users -  
who utilize the data  
provided by LADR

*State representatives may request necessary data for their State by contacting ICAO Aircraft Tracking ([aircrafttracking@icao.int](mailto:aircrafttracking@icao.int)).*



# LADR Contributors Connection Current Status

Status as of April 2026

- **2 Contributors** are currently connected to **LADR Ops** (French MCC of Cospas-Sarsat, SatAuth).
- **Several Contributors** are undergoing Agreement review and technical connection evaluation.



# LADR and Ops Control Functional Blocks



## Ops Control

- Super User Dashboard
- Organisation Management
- User Management
- Operational Contact Details
- Data Transfer



## LADR

- Event Map
- Receipt, Validation, and Publication of Contributor Data
- Contributor Test Messages
- Map Layers (FIR, Satellite, States Map)
- Display of All Messages and Correlation to Events
- Notification (Email and Web- notifications)
- 24/7 Monitoring
- List of Distress Events
- Last Known Position Details
- History Page
- Events Search Function



## Other Functional Blocks

- Connection to ICAO DNA (Authentication)
- Connection to ICAO 3LD System (AO Automatic Sync)
- Help Page
- LADR Manual
- Privacy
- Legal Agreement with Contributors

# LADR Data

<b>Mandatory Data Elements</b>	<b>Optional Data Elements</b>
Latitude / Longitude	Accuracy of Position Data
Date and Time of Transmission and Receipt	Altitude and Source (BARO, GNSS)
3-Letter Designator of State of Operator	Groundspeed
Aircraft Identification – at least one of the following:	Heading
- <i>Aircraft Registration</i>	ELT Hex ID
- <i>24-bit Address</i>	ADT Activation Method
- <i>SELCAL Code</i>	
- <i>Flight Call Sign &amp; Flight Number</i>	
Contributor Code	
Data Source – Manufacturer ID, ADT Type	

# Ops Control Administration

ICAO administrates Ops Control – Organizations and Users



## Main principles:

One focal point per Organization;

FP authorizes users for the Organization - *Key to enabling users to view distress events*

FP sets up the organization/sub-organization

FP sets notifications as per LADR FIR Location Indicators

FP adds operational contact details – *Key to enabling LADR Notifications*

FP turns ON the function to receive LADR Notifications - *Key to enabling LADR Notifications*

ICAO Contact Details:  
[aircrafttracking@icao.int](mailto:aircrafttracking@icao.int)

# LADR Tests and Exercises

- **LADR has been tested** for its technical capabilities
- **Several operational groups** have participated in operational tests and exercises
- In some states & regions, **GADSS workshops and follow-ups** have taken place
- All tests and demonstrations were conducted using a **dedicated test LADR system**
- **No tests are permitted** in the **LADR Ops** environment
- **Test requests:** contact EUROCONTROL

# LADR Useful Links and Contacts

- [LADR & Ops Control](#)
- [ICAO DNA](#)
  
- LADR Support
  - For LADR technical issues:
- Phone: +32 274 519 97
- Mail: [nm.cso.help-desk@eurocontrol.int](mailto:nm.cso.help-desk@eurocontrol.int)
  - For ICAO DNA and LADR Ops Control Organisation & User Management:
- Mail: [aircrafttracking@icao.int](mailto:aircrafttracking@icao.int)



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# Thank you!

