

# AeDMS EU-CORSIA Africa and Caribbean

*Emission Monitoring, Reporting and Verification Made Easy!*

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Aviation Emissions Data Management System Experts

**Working for quieter and cleaner aviation.  
Your safety is our mission.**

# Agenda

- Brief Overview of AeDMS and Workflow
- AeDMS Platform Architecture
- Current State of AeDMS
- ECAA's AeDMS Progress
- Live Session
- Feedback, Q&A



# Brief Overview

## All Emissions are Reported

AeDMS reports all CO<sub>2</sub> emissions, including international flights for a complete understanding of aviation's environmental impact.



## Easy Data Management

AeDMS simplifies emissions data management by automating data retrieval and storage in a centralized database, eliminating manual entry.



## Decreased Email Correspondence

AeDMS provides direct access to emissions data and reports to the stakeholders. This eliminates the need for multiple emails and attachments.



## Data Analysis

AeDMS offers data analysis for in-depth examination of emissions data, enhancing the understanding of aviation's environmental impact and informing policy decisions.



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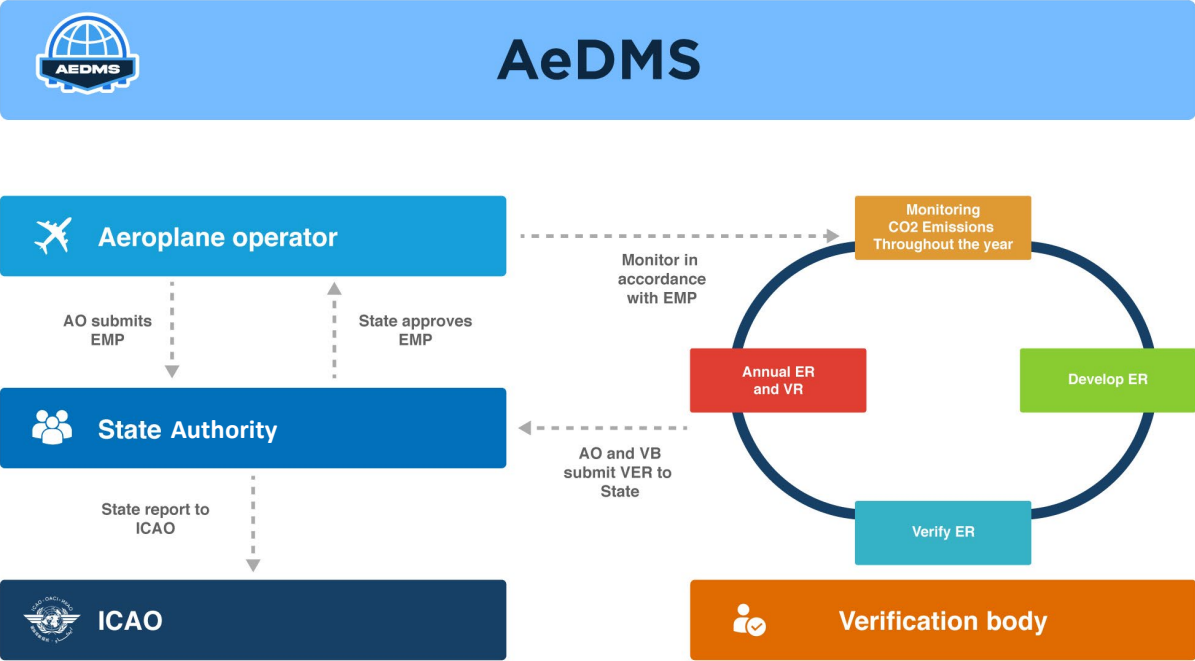


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# AeDMS Workflow



# AeDMS Platform Architecture



**Web-based  
Platform,  
developed using  
NodeJS and React  
Framework**



**MySQL database,  
and Local Storage  
for Documents**



**Platform Users:**

- AO
- VB
- SA



**On Premises  
Deployment**



# AeDMS Platform Architecture

## Application Server

- AeDMS has its own dedicated application server
- Responsible for handling user requests and processing data

## Database Management

- AeDMS utilizes its own dedicated database
- Stores and manages the converted data from uploaded Excel sheets

## ICAO Reporting

- Application follows ICAO specified reporting structure

## Benefits of Architecture

1. Data Security...
2. Customization...

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## 1. Data Security

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- **All data remains within the organization's infrastructure**
- **Provides control and ensures data confidentiality**

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## 2. Customization

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- **On-premises deployment allows for customization to specific requirements**
- **Offers flexibility to tailor the system to the needs of the organization**

# Current State of AeDMS

- State Authority, Verifying Body and Aeroplane Operator
- Language supports (English, French and Spanish)
- Feedback, customizations, enhanced features
- Two Factor Authentication
- Improvements in EMP and ER workflows
- Notifications via in-app and emails
- Dashboards



# ECAA's AeDMS Progress

- Installation completed
- Configured AeDMS
- Tested ECAA AeDMS
- Trained ECAA professionals
- Trained Ethiopian Airlines Group





# AeDMS Live Session

<https://aedms.ecaa.gov.et>



# Fly Green with AeDMS

Emission Monitoring, Reporting and Verification Made Easy!

**Thank you for your attention.  
- Feedback, Q&A**

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# AeDMS Expert Team



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