



ICAO

SAFETY

ECCAIRS 2 Workshop

Introduction to ECCAIRS 2

Module 2

24-25 August 2026, Bangkok, Thailand



Background

- The reporting requirements for States related to Accidents and Incidents are in Annex 13 to the Convention on International Civil Aviation (Chicago Convention)
- Accident / Incident Data Reporting system (ADREP) is the ICAO system to store and manage all the AIG reports submitted by States
- Since the early 2000s ICAO has been using ECCAIRS as the solution for ADREP
- ICAO considers ECCAIRS “ADREP taxonomy compliant”
- ICAO audits States “ADREP” compliance during USOAP activities
- Several States have implemented ECCAIRS as part of their safety data systems
- However, high number of States are not yet fully compliant with the ADREP reporting obligations

ICAO / EU cooperation

- EU and ICAO signed a Working Arrangement on May 2023 regarding ADREP cooperation (EASA to act as EU technical agent)
- This WA is under the purview of a Memorandum of Cooperation (MoC) of May 2011 regarding enhanced cooperation and sharing of safety data
- Confirms the use of ECCAIRS 2 (E2) by ICAO as the solution for ADREP
- ICAO recommends to Member States to use E2 for submitting reports as per requirements of Annex 13
- Member States that opt to do so will receive the service free of charge (base reporting capabilities)

ICAO / EU cooperation, cont'd

- As per the WA, ICAO also recommends its Member States adopt the full E2 system (private database, cloud instance)
- Used to capture and maintain national repository of accident/incident data
- States opting to use the full E2 will need to conclude a service arrangement between the State and EASA
- A set annual fee, based on usage levels and volume, to cover operating costs and support will be outlined in the SA

ICAO / EU cooperation, cont'd

- EASA trained ICAO staff on E2
- EASA set up a sandbox for ICAO to help develop its deployment plan for E2
- ICAO initiated the engagement of experts to develop training packages (called iPACKS) for E2.
- This includes training for safety data concepts using E2

2024 and beyond

- ADREP moved back to AIG and additional resources provided to manage the system and data:
 - Consultant to manage the migration and operation implementation of E2
 - Senior Technical Assistant to manage & run ADREP on E2
- The Occurrence Validation Study Group (OVSG) is also moved back under the auspices of AIG .
- Currently negotiating resource requirements
- Use E2 for the next OVSG Q1 2026

E1 to E2

- Original version of ECCAIRS (E1) decommissioned after 30 years of life
- Moved from EU DG-JRC to EASA
- Outdated technology/software, high maintenance cost, UI limitations
- Complete redevelopment between 2019-2020 resulting in ECCAIRS 2 (E2)
- Roll-out to EASA Member States beginning in 2021

ICAO and E2, next steps

- ICAO E2 database and web landing site has been created
- Webforms for Initial notification, Preliminary and Data reports have been created and moved to ICAO's E2
- Data migrated from old ECCAIRS to E2 (over 45,000 records)
- State Letter 2025/42 distributed on 15 April 2025:
 - Notified States of the launch of ICAO's E2; and
 - Invited States to use the system for Annex 13 reporting requirements

ICAO and E2, next steps

- State responses have been encouraging so far
- Expect to begin adding State accounts by the end of the end of Q2 2025
- Along with iPacks, workshops to be provided at the RO level

E2 and Member States

- Once the State's account is created, a State will have access to ICAO's E2 reporting portal to submit their Annex 13 reporting obligations
- A State will have exclusive view and control of their own reports in the system (ICAO will also be able to view them)
- Can submit reports using:
 - On-line entry
 - PDF forms (downloadable and unloadable in E2)
 - Automated file transfer (for States that have opted for the full E2)

E2 and Member States

- A State using their State-specific environment on ICAO's E2 platform is free of charge.
- This option only provides the capability for the State to submit and edit reports to ICAO. It does not provide a State with:
 - Its own E2 database/instance
 - Support/tools for SMS related work
- A State may opt to request their own E2 instance, which requires:
 - A Service Agreement between the State and EASA
 - A set annual fee, based on usage levels and volume, to cover operating costs and support

E2 and Member States

- Options for States who acquire their own E2 instance:
 - Annex 13 reporting only (EUR 10 000/yr)
 - Cannot create reporting Orgs, cannot access reporting portal
 - Access to Safety Recommendations module
 - Annex 13 & Annex 19 (Access to the full suite of E2 features)
 - Annex 19 Low, up to 200 reports/mth (EUR 55 000/yr)
 - Annex 19 Medium, up to 1 000/mth (EUR 110 000/yr)
 - Annex 19 High, up to 10 000/mth (EUR 183 000/yr)

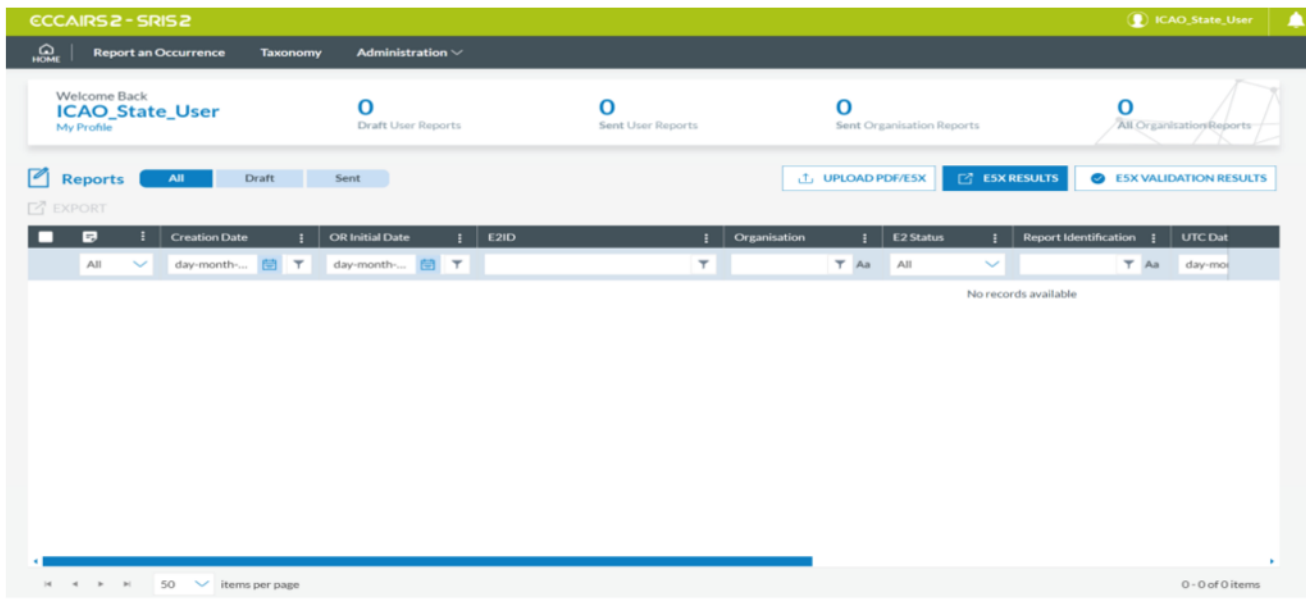
E2 and Member States

- The above fees reflect cost-recovery for:
 - cloud infrastructure costs,
 - support service desk,
 - security,
 - taxonomy updates,
 - onboarding, and
 - a contribution to the development and management of the service

Security

- Security by design using industry cybersecurity best-practices.
- Multi-Factor Authentication (e.g. userid/pwd + code sent via email/text msg phone)
- Counter cybersecurity measures such as Penetration “white hacker” testing is done on the system regularly
- Follows stringent EU data privacy and security guidelines
- Has been vetted by ICAO’s InfoSec Section, responsible for cybersecurity within the Organization

What will ICAO E2 look like (Landing Page)



ECCAIRS 2 - SRIS 2 ICAO_State_User

HOME | Report an Occurrence | Taxonomy | Administration

Welcome Back
ICAO_State_User
My Profile

0 Draft User Reports | 0 Sent User Reports | 0 Sent Organisation Reports | 0 All Organisation Reports

Reports All | Draft | Sent | [UPLOAD PDF/ESX](#) | [ESX RESULTS](#) | [ESX VALIDATION RESULTS](#)

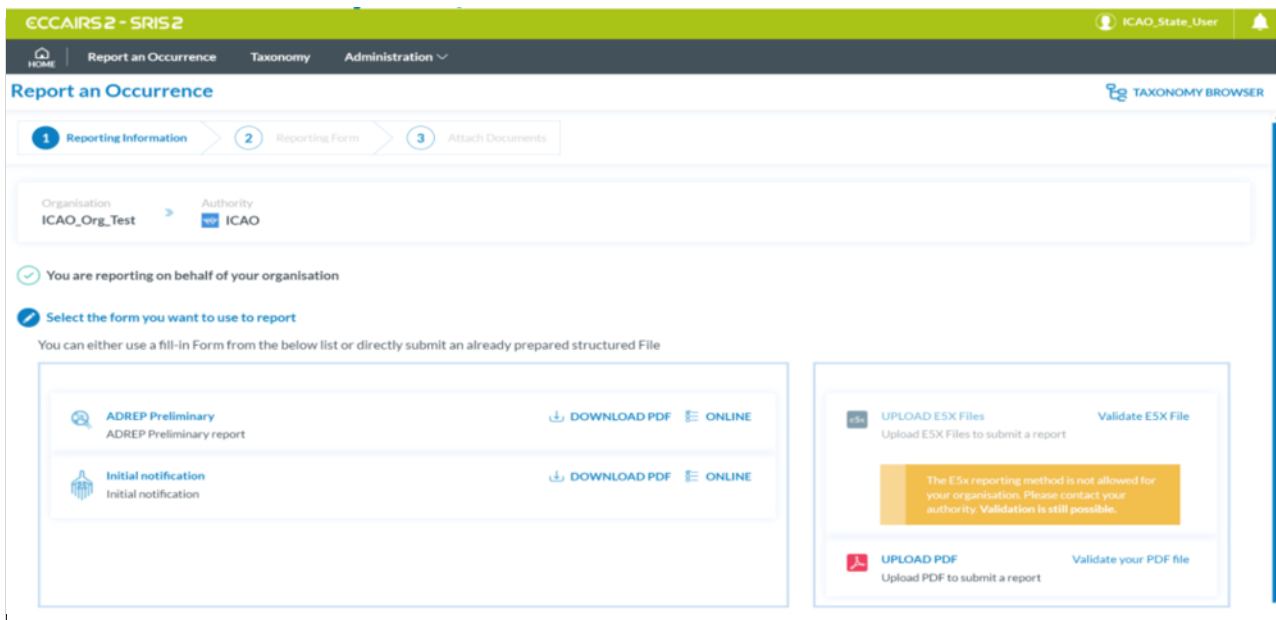
EXPORT

	Creation Date	OR Initial Date	E2ID	Organisation	E2 Status	Report Identification	UTC Dat
All	day-month-...	day-month-...			All		day-mo...

No records available

50 items per page | 0 - 0 of 0 items

What will ICAO E2 look like (selection form)



The screenshot displays the 'Report an Occurrence' interface within the ECCAIRS 2 - SRIS 2 system. The top navigation bar includes 'HOME', 'Report an Occurrence', 'Taxonomy', and 'Administration'. The user is logged in as 'ICAO_State_User'. The main heading is 'Report an Occurrence', with a 'TAXONOMY BROWSER' link on the right. A progress bar shows three steps: '1 Reporting Information' (active), '2 Reporting Form', and '3 Attach Documents'. The form fields include 'Organisation' (ICAO_Org_Test) and 'Authority' (ICAO). A confirmation message states 'You are reporting on behalf of your organisation'. A section titled 'Select the form you want to use to report' provides instructions and two options: 'ADREP Preliminary' and 'Initial notification', each with 'DOWNLOAD PDF' and 'ONLINE' links. A right-hand panel offers 'UPLOAD ESX Files' (with a warning that ESx reporting is not allowed for this organization) and 'UPLOAD PDF' options, each with a 'Validate' link.

ECCAIRS 2 - SRIS 2

ICAO_State_User

HOME | Report an Occurrence | Taxonomy | Administration

Report an Occurrence

TAXONOMY BROWSER

1 Reporting Information | 2 Reporting Form | 3 Attach Documents

Organisation: ICAO_Org_Test | Authority: ICAO

☒ You are reporting on behalf of your organisation

☒ Select the form you want to use to report

You can either use a fill-in Form from the below list or directly submit an already prepared structured File

 **ADREP Preliminary**
ADREP Preliminary report

[DOWNLOAD PDF](#) [ONLINE](#)

 **Initial notification**
Initial notification

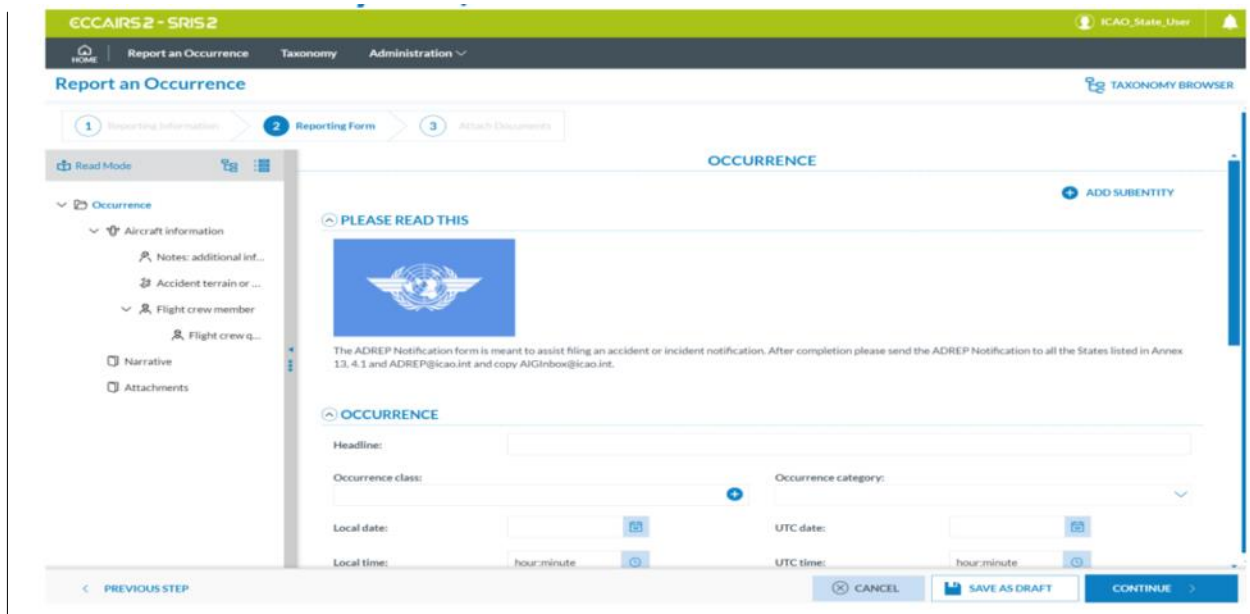
[DOWNLOAD PDF](#) [ONLINE](#)

 **UPLOAD ESX Files** [Validate ESX File](#)
Upload ESX Files to submit a report

The ESx reporting method is not allowed for your organisation. Please contact your authority. Validation is still possible.

 **UPLOAD PDF** [Validate your PDF file](#)
Upload PDF to submit a report

What will ICAO E2 look like (online form)



The screenshot displays the 'Report an Occurrence' interface within the ECCAIRS 2 - SRIS 2 system. The top navigation bar includes 'HOME', 'Report an Occurrence', 'Taxonomy', and 'Administration'. A progress indicator shows three steps: '1 Reporting Information', '2 Reporting Form' (current), and '3 Attach Documents'. A left sidebar menu lists categories like 'Occurrence', 'Aircraft information', 'Flight crew member', 'Narrative', and 'Attachments'. The main content area is titled 'OCCURRENCE' and features a 'PLEASE READ THIS' section with the ICAO logo and instructions about the ADREP Notification form. Below this, the 'OCCURRENCE' section contains input fields for 'Headline:', 'Occurrence class:', 'Occurrence category:', 'Local date:', 'Local time:', 'UTC date:', and 'UTC time:'. The form concludes with 'PREVIOUS STEP', 'CANCEL', 'SAVE AS DRAFT', and 'CONTINUE' buttons.

What will ICAO E2 look like (pdf form)

[illegible]



Thank You