



ICAO

SAFETY

ECCAIRS 2 Workshop

Introduction to ECCAIRS 2

Module 2

25 June 2026, Lima, Peru



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)

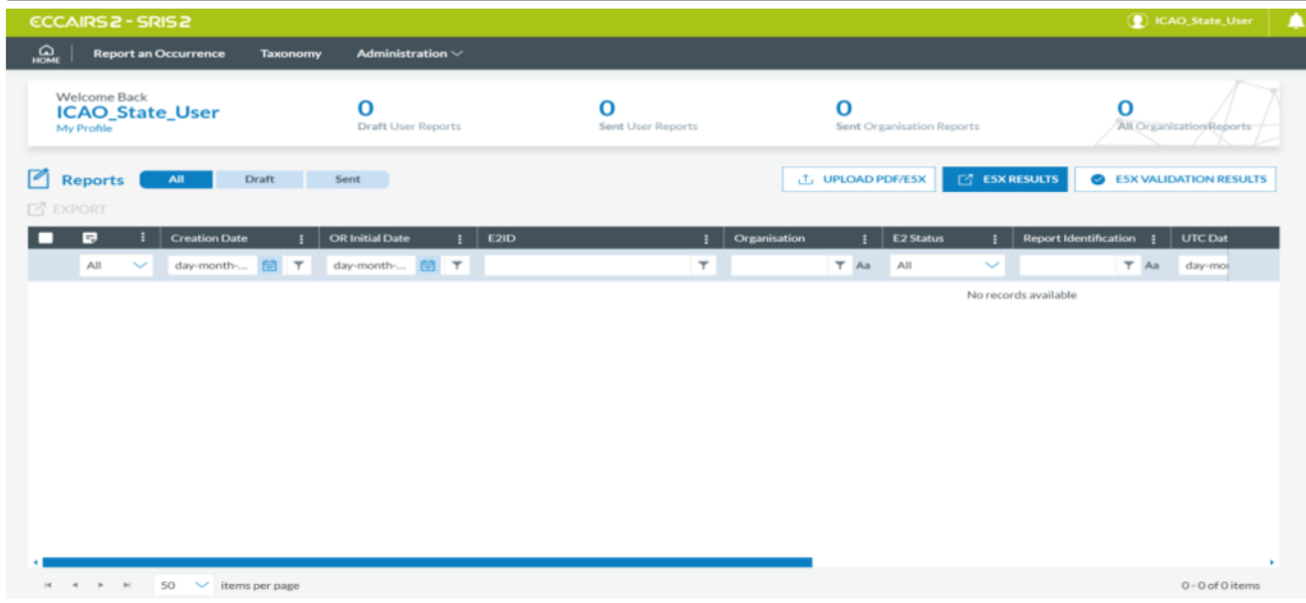
E2 and Member States

- 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

EXPORT

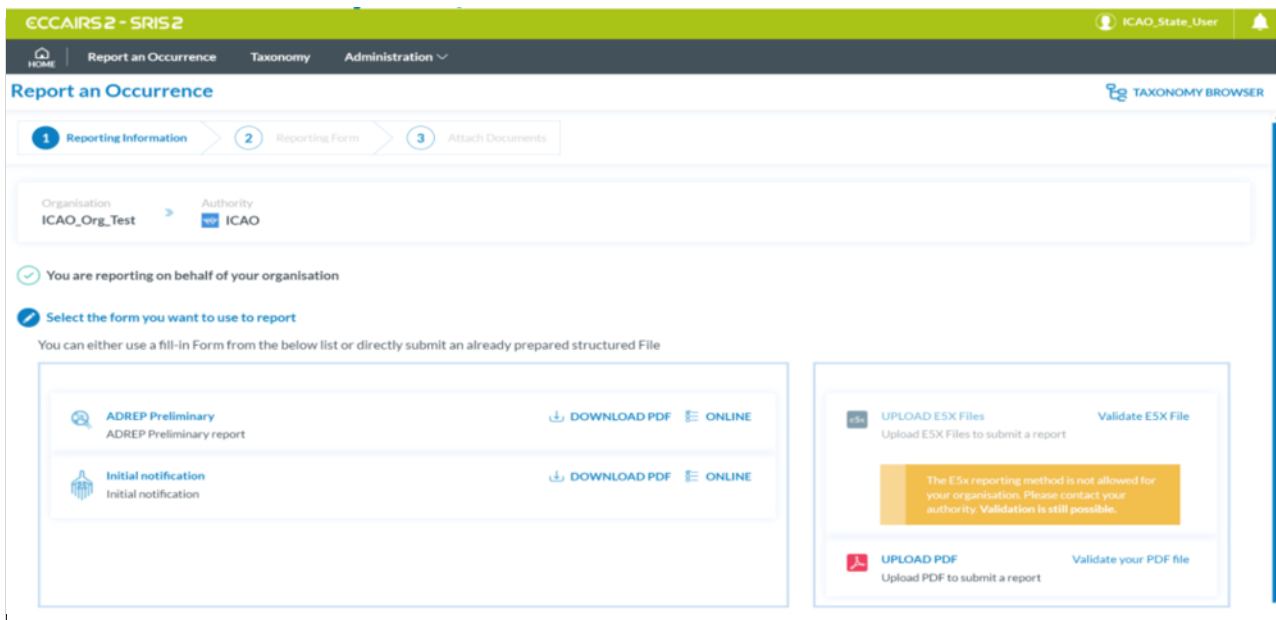
UPLOAD PDF/ESX | ESX RESULTS | ESX VALIDATION RESULTS

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

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What will ICAO E2 look like (selection form)

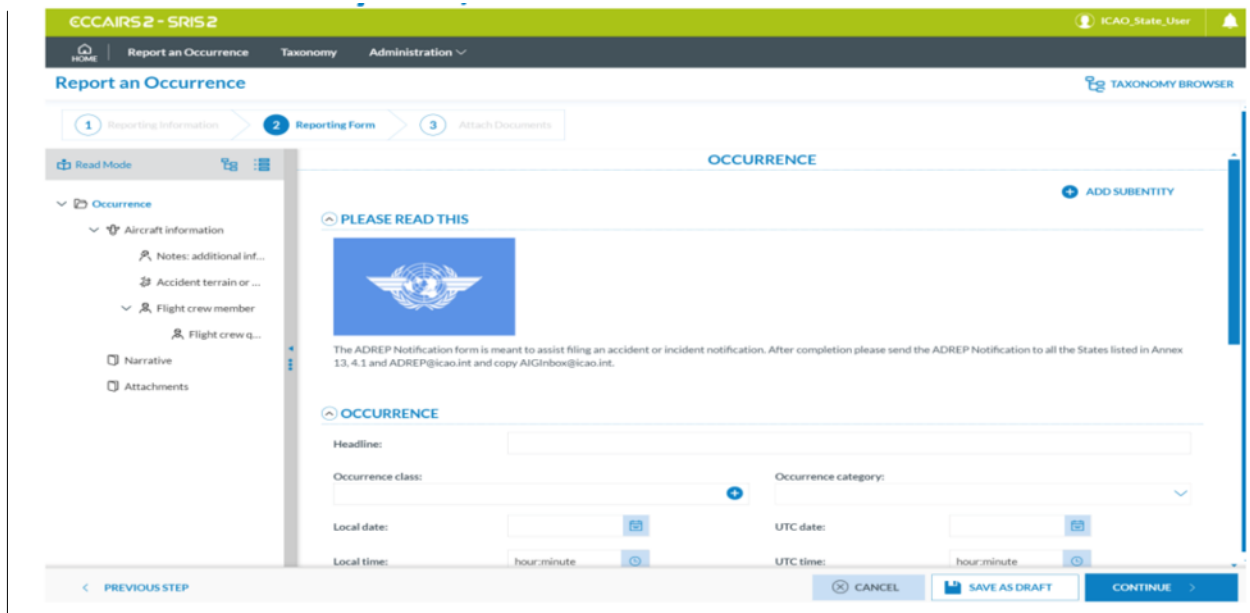


The screenshot displays the 'Report an Occurrence' interface within the ECCAIRS 2 - SRIS 2 system. The top navigation bar includes links for HOME, Report an Occurrence, Taxonomy, and Administration. The user is logged in as 'ICAO_State_User'. The main heading is 'Report an Occurrence', with a 'TAXONOMY BROWSER' link on the right. A progress bar at the top indicates three steps: 1. Reporting Information (active), 2. Reporting Form, and 3. Attach Documents.

Below the progress bar, there are fields for 'Organisation' (ICAO_Org_Test) and 'Authority' (ICAO). A checkbox labeled 'You are reporting on behalf of your organisation' is checked. A section titled 'Select the form you want to use to report' includes the instruction: 'You can either use a fill-in Form from the below list or directly submit an already prepared structured File'.

Two main panels are visible. The left panel lists two report types: 'ADREP Preliminary' and 'Initial notification'. Each entry has a 'DOWNLOAD PDF' link and an 'ONLINE' link. The right panel contains two upload options: 'UPLOAD ESX Files' and 'UPLOAD PDF'. The 'UPLOAD ESX Files' section has a message stating: 'The ESx reporting method is not allowed for your organisation. Please contact your authority. Validation is still possible.' The 'UPLOAD PDF' section includes a 'Validate your PDF file' link.

What will ICAO E2 look like (online form)



The screenshot displays the ECCAIRS 2 - SRIS 2 web application interface for reporting an occurrence. The top navigation bar includes links for HOME, Report an Occurrence, Taxonomy, and Administration. The main heading is "Report an Occurrence", and a progress bar shows three steps: 1. Reporting Information, 2. Reporting Form (current), and 3. Attach Documents. A left sidebar menu lists categories under "Occurrence": Aircraft information (Notes, Accident terrain, Flight crew member, Flight crew q...), 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 is the "OCCURRENCE" form section with fields for: Headline, Occurrence class, Occurrence category, Local date, Local time, UTC date, and UTC time. The form includes a "TAXONOMY BROWSER" link, an "ADD SUBENTITY" button, and navigation buttons at the bottom: PREVIOUS STEP, CANCEL, SAVE AS DRAFT, and CONTINUE.

What will ICAO E2 look like (pdf form)

[illegible]



Thank You