

E2 in support of Annex 13 & Annex 19 SARPs

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ECCAIRS2

Your safety is our mission.

Aviation Safety and Occurrence Reporting

Aviation safety depends on systematic collection, analysis and effective use of safety information.

- Occurrence reporting enables authorities to:
 - identify emerging safety risks
 - analyse trends and contributing factors
 - support accident and incident investigations
 - improve safety oversight and prevention
- International aviation safety frameworks require States to implement structured reporting systems
- Key ICAO frameworks include:

Annex 13 - Aircraft Accident and Incident Investigation

Annex 19 - Safety Management

- These frameworks require States to collect and analyse safety data in order to continuously improve aviation safety
- However, many authorities face significant challenges in implementing modern safety reporting infrastructures.

Frequent challenges faced by the States

→ Technical challenges

- building and maintaining complex databases
- managing evolving taxonomies and reporting formats
- ensuring interoperability with external safety systems

→ Operational challenges

- managing increasing volumes of safety reports
- ensuring data quality and consistency
- supporting investigators and safety analysts

→ Financial challenges

- developing a national safety reporting system can cost several million euros
- continuous maintenance and upgrades are required

Introducing ECCAIRS 2

- ECCAIRS 2 (E2) is a modern aviation safety reporting and analysis platform developed and operated by EASA
- **E2 is fully aligned with ICAO standards and now used by ICAO as the platform for ADREP reporting**
- The system supports:
 - occurrence reporting
 - accident and incident investigation
 - safety data analysis
 - safety data sharing between authorities
- E2 replaces the legacy ECCAIRS (*European Coordination Centre for Accident and Incident Reporting*) system, which required local installations and decentralised maintenance
- The platform now operates as a centrally managed cloud service providing a modern and scalable safety reporting infrastructure

What Authorities gain

Authorities joining the ECCAIRS 2 programme gain access to a comprehensive safety reporting infrastructure.

Key benefits include:

→ **Immediate operational capability**

- fully operational occurrence reporting system
- integrated investigation support
- ready-to-use reporting workflows

→ **Regulatory alignment**

- support for ICAO Annex 13 safety investigation
- support for Annex 19 safety management frameworks

→ **Operational efficiency**

- no local installation required
- no infrastructure maintenance
- continuous system updates, including taxonomy
- Authorities can focus on safety analysis rather than system development

Reporting and Data Collection

- ECCAIRS 2 provides multiple reporting channels allowing authorities to collect safety reports efficiently
- Reporting methods include:
 - online reporting forms
 - smart PDF reporting forms (online and offline)
 - automated reporting through APIs machine-to-machine integrations with Safety Management Systems
- Authorities can register and manage reporting organisations such as:
 - Airlines
 - Airports
 - Air Navigation Service Providers
 - Maintenance Organisations
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- More than **1,000 safety systems already transmit reports automatically to ECCAIRS 2**

Occurrence Management and Workflow

- ECCAIRS 2 supports the full lifecycle of occurrence management
- The system manages the reporting workflow:
 - Original Reports (OR)
 - Validated Reports (VR)
 - Occurrence Report (OC)
- Key capabilities include:
 - merging multiple reports into a single occurrence
 - automated notifications and workflow management
 - automatic processing of follow-up reports
- These capabilities allow authorities to efficiently manage large volumes of safety data

Customisation and Integration

Although centrally operated, ECCAIRS 2 allows extensive customisation for each authority

- Authorities can configure:
 - custom reporting forms
 - local taxonomy extensions
 - user roles and permissions
 - customised workflows and views
 - local reference databases

- Integration capabilities include:
 - powerful APIs for integration with Safety Management Systems
 - machine-to-machine reporting
 - support for E5X reporting standards

Service Agreement

- Authorities join the programme through a **Service Agreement** with EASA
- The agreement covers:
 - ✓ *platform access*
 - ✓ *onboarding and training*
 - ✓ *operational support*
 - ✓ *infrastructure and security management*
 - ✓ *continuous development of the platform*
- The Service Agreement comes with some costs and is scalable iaw 4 different tiers, depending on scope and volume of the reporting
- Onboarding includes technical setup and training of administrators and users

How to Join the Programme

- The onboarding process typically includes the following steps:
 - 1. Initial contact with EASA*
 - 2. System demonstration*
 - 3. Assessment of the authority's reporting needs*
 - 4. Definition of onboarding approach*
 - 5. Signature of the Service Agreement*
 - 6. Technical implementation and training*
- Onboarding is prioritised based on available EASA capacity and the readiness of participating authorities.

Contact

- Authorities interested in joining the ECCAIRS 2 programme can contact the EASA team.
- The team will organise a system demonstration and provide detailed information on participation conditions.

Contact:

→ [**eccairs2@easa.europa.eu**](mailto:eccairs2@easa.europa.eu)

Thank you for your attention!

ECCAIRS 2 Service Tiers

Service Tier	<u>Annex 13 Only</u>	<u>A19 LOW</u>	<u>A19 MEDIUM</u>	<u>A19 HIGH</u>
Target use case	Accident investigation only	Small reporting systems	Medium aviation systems	Large aviation systems
Annual Price	€10,000 / year	€55,000 / year	€110,000 / year	€183,000 / year
Users	2 admins + 8 users	2 admins + 8 users	2 admins + 23 users	5 admins + 98 users
Registered organisations	None	Up to 50	Up to 500	Up to 10,000
Reporting volume	Up to 50 reports/month	Up to 100 reports/month	Up to 1,000 reports/month	Up to 10,000 reports/month
Safety report size	Up to 5 GB/month	Up to 10 GB/month	Up to 50 GB/month	Up to 100 GB/month
Aviation portal	No reporting portal	Online & Offline forms	Online & Offline forms	Online & Offline forms
Automation	M2M & API	M2M & API	M2M & API	M2M & API
Database setup	Empty DB or simple E1 conversion	Empty DB or simple E1 conversion	E1 conversion included	E1 conversion + custom fields