

Introduction to the CORSIA Central Registry (CCR)

ICAO Secretariat



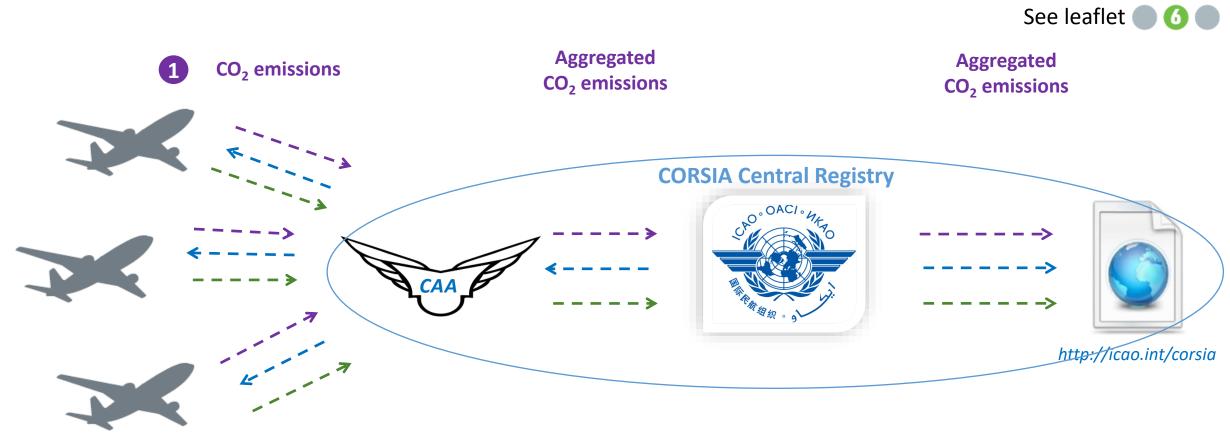


Mandate for the CCR

- Assembly Resolution A39-3, paragraph 20 g):
 - "the Council to establish a consolidated central registry under the auspices of ICAO, for operationalization no later than 1 January 2021"
- Annex 16, Volume IV:
 - The CORSIA Central Registry is one of the five implementation elements of CORSIA
- Assembly Resolution A40-19, paragraph 19 b) and 19 d):
 - "the Council, with the technical contribution of CAEP, to continue to develop and update the ICAO CORSIA documents referenced in Annex 16, Volume IV related to: ... CORSIA Central Registry ..."
 - "the Council to establish, by early 2020, and maintain the <u>CORSIA Central Registry</u> under the auspices of ICAO to enable the reporting of relevant information from Member States to ICAO"



CORSIA General Information Flow



Offsetting requirements

Info on cancelled emissions units

Sector's Growth Factor

Aggregated info on cancelled emissions units

Sector's Growth Factor

Aggregated info on cancelled emissions units



Reporting by States

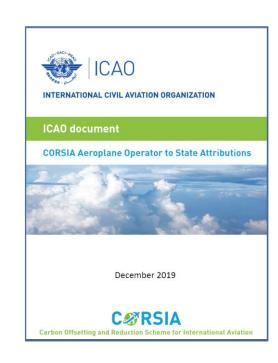
Information type	Baseline		Pilot Phase			First Phase		
	2019	2020	(2021)	2022	2023	2024	2025	2026
Aeroplane	√	✓	✓	✓	✓	✓	✓	✓
operators	2019-2020 data	(2021 data)	2022 data	2023 data	2024 data	2025 data	2026 data	2027 data
Verification bodies	✓	✓	✓	/		✓		✓
	2019-2020 data	(2021 data)	2022 data	2023 data	2024 data	2025 data	2026 data	2027 data
CO ₂ emissions		✓	✓		✓	✓	✓	/
		2019 data	2020 data	(2021 data)	2022 data	2023 data	2024 data	2025 data
CORSIA eligible		Optional	Optional		✓	✓		
fuels*		2019 data	2020 data	(2021 data)	2022 data	2023 data	2024 data	2025 data
Cancelled emissions units				· /			2021-2023 data	

^{*} Information on CORSIA eligible fuels can be reported annually or once at the end of each three-year cycle.



Information and Data from the CCR (1/2)

- Information and data for implementation:
 - ICAO Document "CORSIA Central Registry (CCR): Information and Data for the Implementation of CORSIA" contains:
 - ICAO Document "CORSIA Aeroplane Operator to State Attributions"
 - List of Aeroplane Operators and the State to which they are attributed
 - Availability: Fourth edition published in March 2020 (updated regularly)
 - ICAO Document "CORSIA 2020 Emissions"
 - Total 2020 CO₂ emissions to determine the first year in which a new entrant has offsetting requirements
 - Expected availability: 31 October 2021
 - ICAO Document "CORSIA Annual Sector's Growth Factor"
 - Expected availability: 31 October 2022 (to be updated annually)





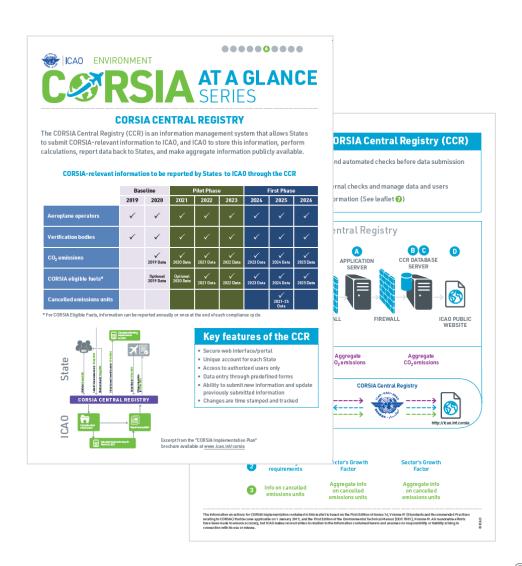
Information and Data from the CCR (2/2)

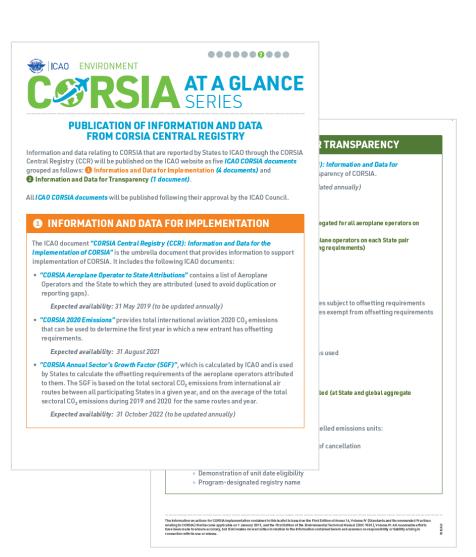
- Information and data for transparency:
 - ICAO Document "CORSIA Central Registry (CCR): Information and Data for Transparency" contains:
 - List of verification bodies accredited in each State
 - Total average CO₂ emissions for 2019 and 2020 aggregated for all aeroplane operators on each State pair route
 - Total annual CO₂ emissions aggregated for all aeroplane operators on each State pair (with identification of State pairs subject to offsetting requirements)
 - Information and data on CO₂ emissions for each aeroplane operator
 - Information and data on CORSIA eligible fuels claimed
 - Offsetting requirements and emissions units cancelled (at State and global aggregate level for a specific compliance period)
 - Availability: Fifth edition published in March 2020 (verification bodies data only - updated regularly)





CORSIA Leaflets #6 and #7 on CCR







CCR Implementation



Key Features of the CCR

The CORSIA Central Registry (CCR) has been implemented as an online and user-friendly web application that is hosted using Cloud services

One CCR account per State

- Authorized users only (nominated by the State)
- Access to only one State account

Secure interface

- Password protection Authentication protocol
- Confidential data

Simple info/data entry

- Data entry through predefined forms
- Manual (one by one) and bulk upload possible

Traceability and data integrity

- Time-stamped and recorded actions (who, what, when)
- No deletions; in case of re-submission, archive previous version



CCR User Groups/Roles

User Group/Role	Brief Description
CORSIA Focal Point (CFP)	A CORSIA Focal Point is nominated by his/her respective State. A CFP can upload and change State-specific data, and has the responsibility of approving and submitting the information and data to ICAO
State User (STU)	A user nominated by the CFP of a State with access to functions relating to uploading and changing State-specific data
ICAO Super User (ISU)	ICAO staff responsible for the management of the information and data in the CCR. The ISU checks the submissions by States for format correctness and prepares ICAO CORSIA documents





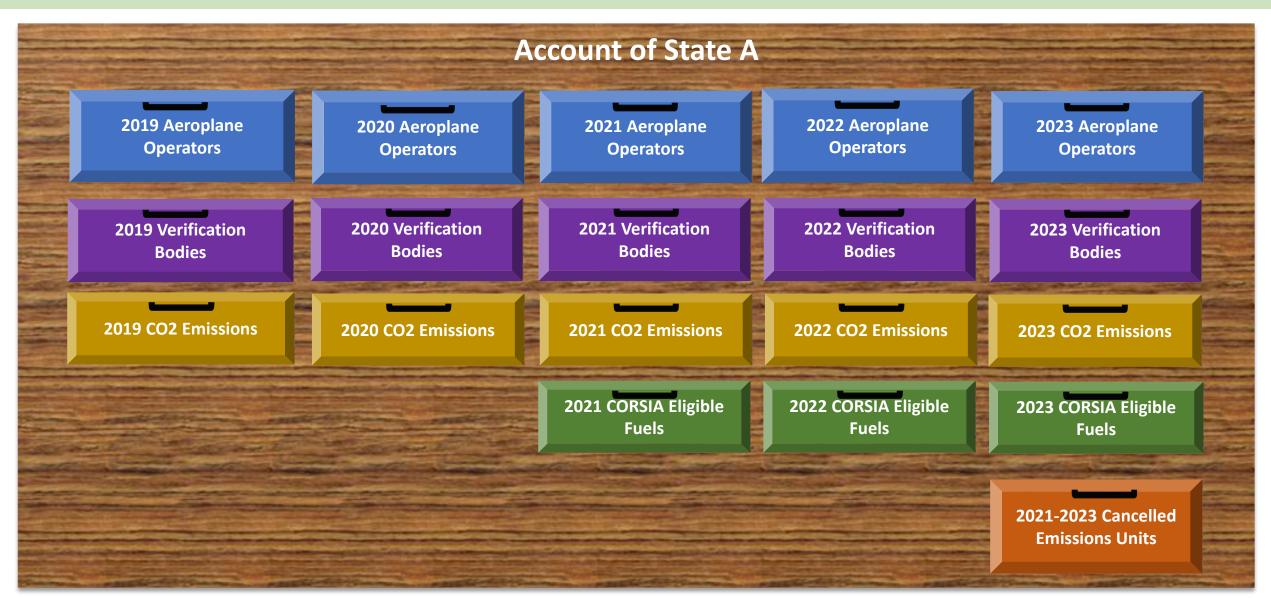
Year Records

- Information and data uploaded in the CCR are stored in **individual year** records. Each year record is associated with:
 - A specific State;
 - A specific reporting year or compliance period; and
 - A specific reporting area.

• For example, the record "CANADA-2019-Aeroplane Operators" will contain information and data for all aeroplane operators attributed to Canada for the year 2019.



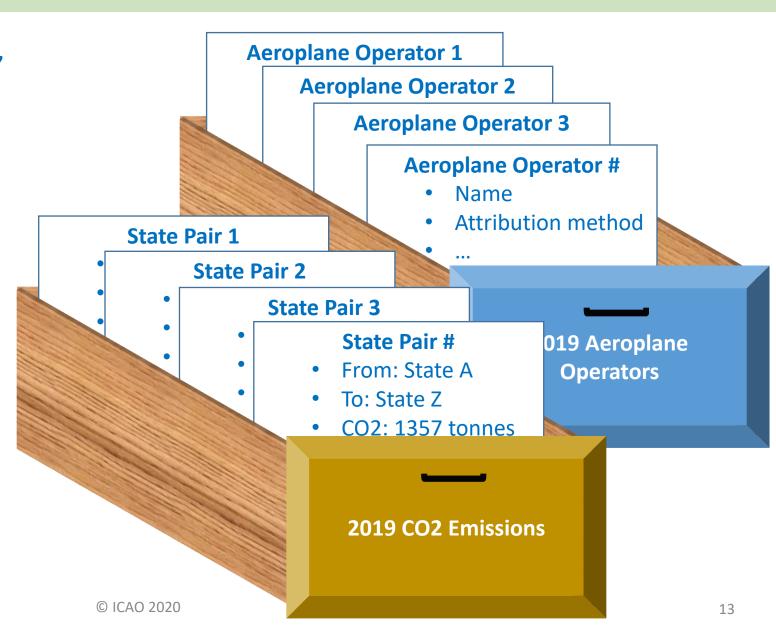
Year Records





Information and Data in a Year Record

- Within each individual year record, the information and data are organized in "entries". For example:
 - For aeroplane operators an entry is associated with a specific aeroplane operator
 - For CO₂ emissions, an entry is associated with a specific
 State pair etc.





Year Record Status



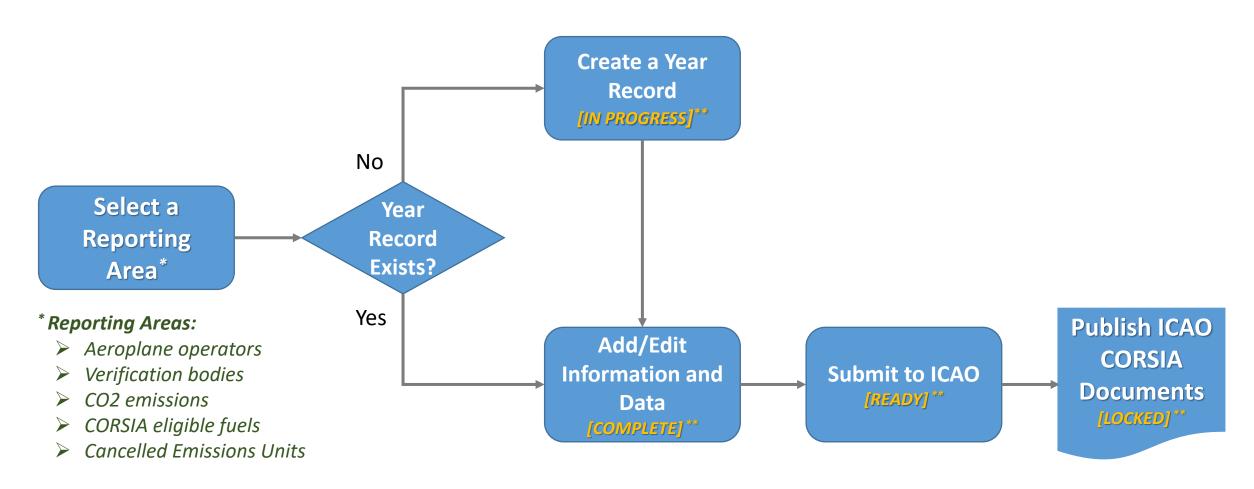
Status	Brief Description	Modifications allowed?
IN PROGRESS	A year record that can be modified by adding, editing or deleting information and data in specific entries; Default status when a new year record is created	Yes (CFP and STU)
COMPLETE	A year record, previously marked as IN PROGRESS, that is under review by the CFP	Yes (CFP only)
READY*	A year record, previously marked as COMPLETE, that has been reviewed by the CFP, has been submitted to ICAO, and waits for processing by the ISU	No**
LOCKED	A year record, previously marked as READY, that has been processed by the ISU and can be used to produce reports and calculations	No**

^{*} READY (ICAO DATA) designates a record created by ICAO (if a State does not submit data)

^{**} The ISU can release or unlock a READY or LOCKED record for further editing (at the request of a CFP) by changing the status to IN PROGRESS



Simple Reporting Process



^{**} Data Status



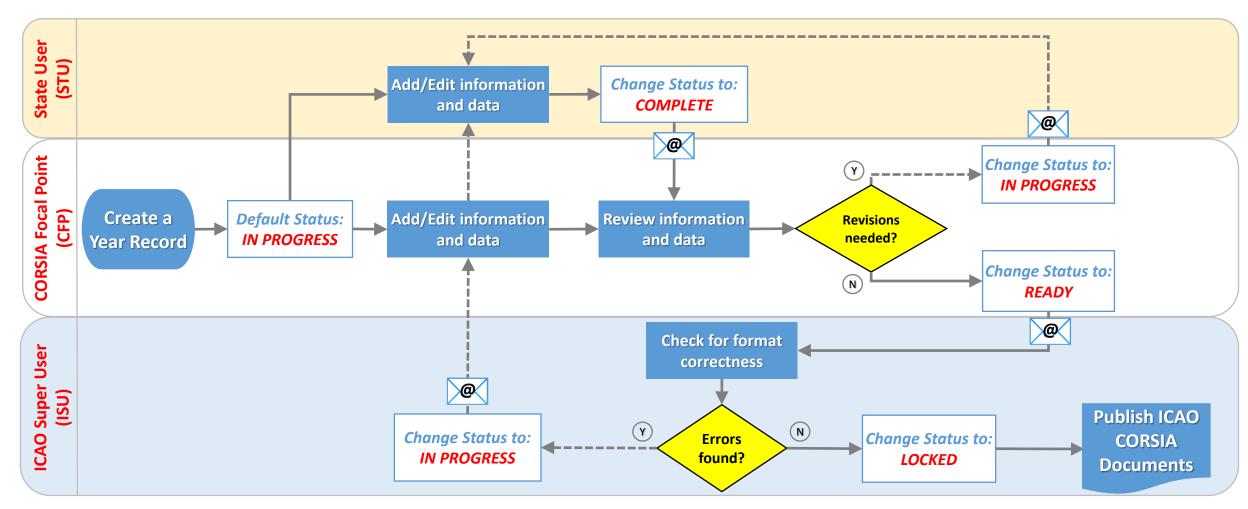
Selected CCR User Group Permissions

	CCR Functions					
User Group -	Create Year Record	Add, Edit, Delete Info and Data	Submit to ICAO	Publish ICAO CORSIA Docs		
CORSIA Focal Point (CFP)	√		√	×		
State User (STU)	*		×	*		
ICAO Super User (ISU)	√	√	N/A	√		

IMPORTANT!!!



CCR Dataflow Process





Automatic email notification



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17



Things to Remember

• Each CFP and STU is connected to one ICAO State and, therefore, does not have access to the information and data of any other ICAO State

- If an ICAO State does not provide its annual aggregated Emissions Report to ICAO, then ICAO provides data to fill the gaps and calculate the total sectoral CO₂ emissions and the Sector's Growth Factor in a given year, as per Annex 16, Volume IV
 - The information and data will be uploaded onto the CCR by the ISU, and the status of the year record will be set to "READY (ICAO DATA)"

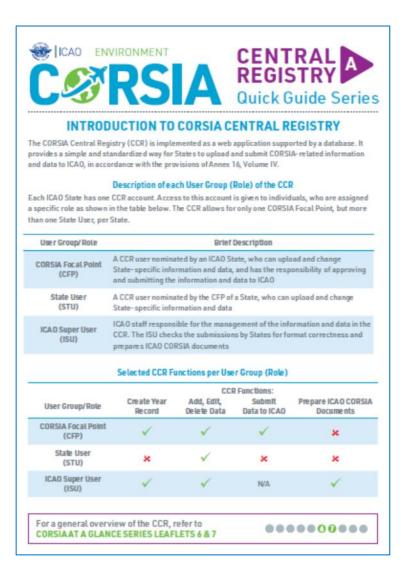


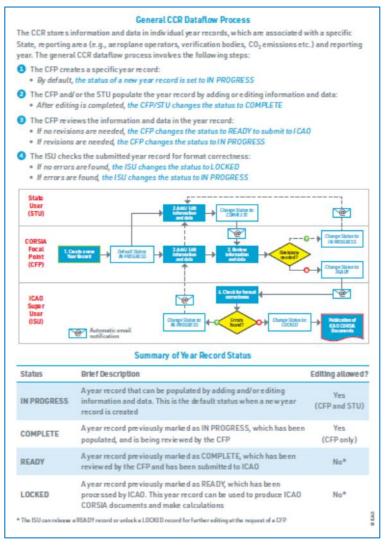
Things to Remember

- Year record status: IN PROGRESS → COMPLETE → READY → LOCKED
 - A COMPLETE record is read-only for a STU; the CFP can change the status of a record from COMPLETE to IN PROGRESS for further editing by the STU
 - A READY or LOCKED record is read-only for a CFP and STU; the ISU can change the status of a record from READY or LOCKED to IN PROGRESS for further editing at the request of a CFP



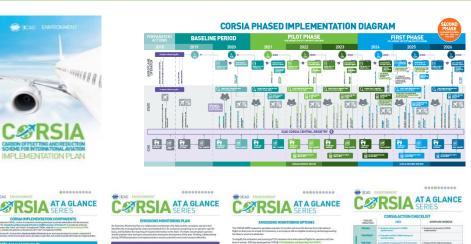
CCR Quick Guide Series Leaflet A

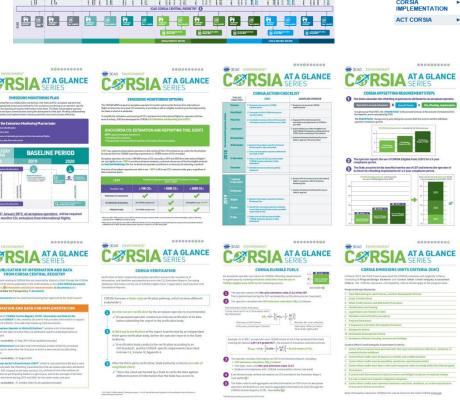














CORSIA IMPLEMENTATION

Assembly Resolution A40-19

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- Reservation to Resolution A40-19
- · SARPs Annex 16 Volume IV
- Environmental Technical Manual Volume IV
- » Templates
- ICAO CORSIA Implementation Elements
- » CORSIA States for Chapter 3 State Pairs
- » ICAO CORSIA CO2 Estimation and Reporting Tool (CERT)
- » CORSIA Eligible Fuels
- » CORSIA Eligible Emissions Units
- » CORSIA Central Registry (CCR)

Additional Material for CORSIA Implementation



ACT >>> CORSIA

- · CORSIA Buddy Partnerships
- Model Regulations
- · Frequently Asked Questions
- · Brochure and Leaflets
- Videos
- Seminars
- · Online Tutorials
- · Background Information



For more information, please visit our website: http://www.icao.int/corsia