Session 6: CORSIA actions/timelines and the CORSIA Central Registry (CCR)
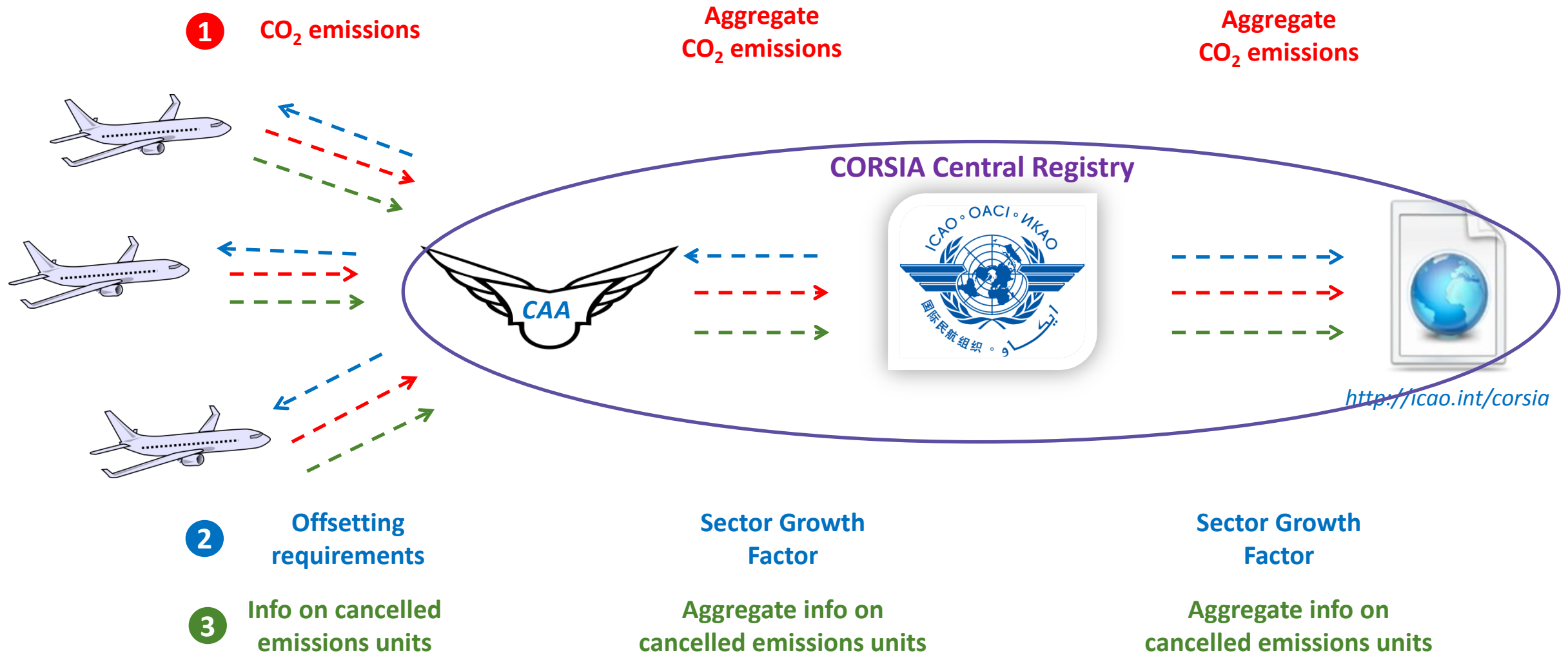## CORSIA Central Registry (CCR)

ICAO Secretariat

- The 39th ICAO Assembly (Assembly Resolution A39-3, paragraph 20 g)) requested the Council:

  - to establish a consolidated central registry under the auspices of ICAO, for operationalization no later than 1 January 2021

CORSIA Information Flow

1 **CO$_2$ emissions**

Aggregate CO$_2$ emissions

Aggregate CO$_2$ emissions

CORSIA Central Registry

http://icao.int/corsia

CAA

2 **Offsetting requirements**

Sector Growth Factor

Sector Growth Factor

3 **Info on cancelled emissions units**

Aggregate info on cancelled emissions units

Aggregate info on cancelled emissions units

- The CORSIA Central Registry (CCR) is one of the five CORSIA Implementation Elements

- Essential for the implementation of the CORSIA

- The CCR allows:
  - States to submit CORSIA-specific information to ICAO, and
  - ICAO to perform calculations and to compile CORSIA-specific information

- Consolidated data from the CCR will be published on the ICAO CORSIA web-site for public access

- At its 214th session, the ICAO Council approved functional requirements for the CCR as follows:
  - Integral to any comparable data management system, and
  - Specific to the CCR, divided into three categories:
    - Data collection and submission
    - Data analysis and management
    - Data publication

- Security / protection of data
- Data backup / disaster recovery
- Data IT protocols / standards, as applicable
- Flexibility (modifications / future refinements and upgrades)
- Availability
- Maintenance and support
- Allow for system audit:
  - Audit of all system functionalities for technical accuracy according to design, and audit of accuracy of data entering, being stored in and passing through the CCR, over time and by any user, as relevant.
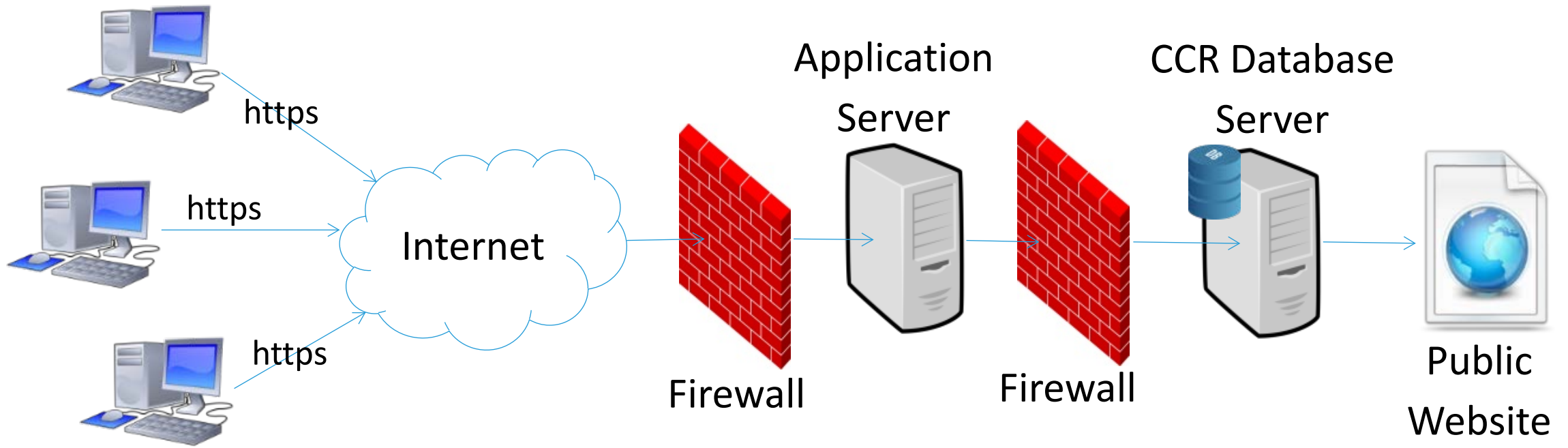- Store and process up to several billion data values
- Localization

- Data Collection and Submission
  - Data collection and submission
  - System administration
  - Automated error checks

- Data Analysis and Management
  - Data analysis and management
  - Eligibility checks

- Data Publication
  - Present information on ICAO CORSIA web-site for public access

- Each State will have one account on the CCR:
  - Only authorized (limited) users, nominated by a State, will have access to that State's account
  - Secure web interface (password protection – authentication protocol)
  - Simple web application/portal to upload and submit information

- Actions will be time-stamped and recorded (including the electronic signature of the user who initiated an action) to ensure traceability and data integrity:
  - In case of a re-submission, the previous version of the modified information will be archived

Authorized Users

https

https

https

Internet

Firewall

Application Server

Firewall

CCR Database Server

Public Website

ICAO ENVIRONMENT

In accordance with Annex 16, Volume IV, the following information will be reported by States and will be stored in the CCR:

List of aeroplane operators attributed to the State

Verification body/bodies accredited by the State

State participation in the CORSIA for a given year

CO_2 emissions from international flights

CORSIA eligible fuels

Cancelled emissions units

- In accordance with Annex 16, Volume IV, information from the CCR will be used to prepare:
  - ICAO Document "CORSIA Central Registry (CCR): Information and Data for the Implementation of CORSIA"
  - ICAO Document "CORSIA Aeroplane Operator to State Attributions"
    - List of Aeroplane Operators and the State to which they are attributed
  - ICAO Document "CORSIA 2020 Emissions"
    - Total 2020 CO_2 emissions to determine the first year in which a new entrant has offsetting requirements
  - ICAO Document "CORSIA Annual Sector's Growth Factor"
  - ICAO Document "CORSIA Central Registry (CCR): Information and Data for Transparency"

CCR Implementation Timeline

Council Decision (June 2018)

Procurement (Jul-Dec 2018)

Development and Testing (January 2019 – January 2020)

Deployment (Feb 2020)

Jun 2018

Jan 2019

Jan 2020

Early 2020 is the earliest possible time for the CCR operationalization, taking into account the reporting of information by States, as well as the development and testing of CCR, prior to its operationalization