



# Updates ETS Support facility to CORSIA (EUROCONTROL)

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# Scopes Overview



## **ETS scope**

- Traffic geographical coverage = few thousands AOs worldwide
  - Full Scope, used for eligibility & thresholds: from/to EEA, at least one of the two destination is in EEA
  - Reporting Scope, allowances to be surrendered: intra EEA only
- Specific computations rules and traffic attribution/exemptions
- Offsetting scope = Reporting Scope
- Allowances to be surrendered: intra EEA only and also domestic (EEA country)

## **CORSIA scope**

- Traffic geographical coverage = few hundreds AOs European
  - Full Scope, used for eligibility & thresholds and to be reported by all only for international traffic
- Specific computations rules and traffic attribution
- Offsetting Scope <> Reporting scope
- Carbon emission units to be offset: only on routes between volunteer participating States
  - Only Emissions above 2019/2020 to be regulated (neutral GROWTH)

## EUROCONTROL's present support facilities for Competent Authorities

EUROCONTROL is an intergovernmental organisation (30 EEA States + 11 States, ECAC wide)

### **ETSSF**

- Support to EEA States in implementing the EU ETS
- Support to European Commission in defining the EU ETS list
- Support to aeroplane operators in complying to ETS (can include third parties authorised by operators, e.g. verifiers, leasing companies)

### **ETS OBI Portal**

- Support to States to understand EU ETS list (situation snapshot at time of list production)

## New EMIS web portal from EUROCONTROL

- **EMIS = Environment Master Information System**
- uses EUROCONTROL European wide databases including “worldwide” traffic data
  - ETS database (CRCO) **complemented with** :
    - **A) Observed data** :
      - States (Iceland, France for OMR)
      - ADS-B data (assessed on one month of data for summer 2019. 65% of flights can be treated directly...the rest...)
      - Non EEA/ECAC States' data (agreements negotiations)
    - **B) Flight intention data**
      - Innovata-FlightGlobal data (scheduled traffic under negotiation)
- => get traffic (limited) of AO (Europeans CORSIA) in areas where EUROCONTROL has no ATM responsibility & no ATM data
- Proposes different web applications to different CAs (and EC) :
  - CORSIA Reporting Tool for EEA and EC
    - ECAC and maybe non-ECAC as well in the future
  - ETS Support Facility to EEA
  - CORSIA Support Facility for EEA, other ECAC, non-ECAC,
  - Individual organisation user management module to all EMIS users

## New support facilities for Competent Authorities in EMIS

### **CORSIA Reporting Tool (CRT)**

- European Commission / EEA States users
- Generate Individual State's report for submission in CORSIA to ICAO
- Requires upload of all AO AERs from States users

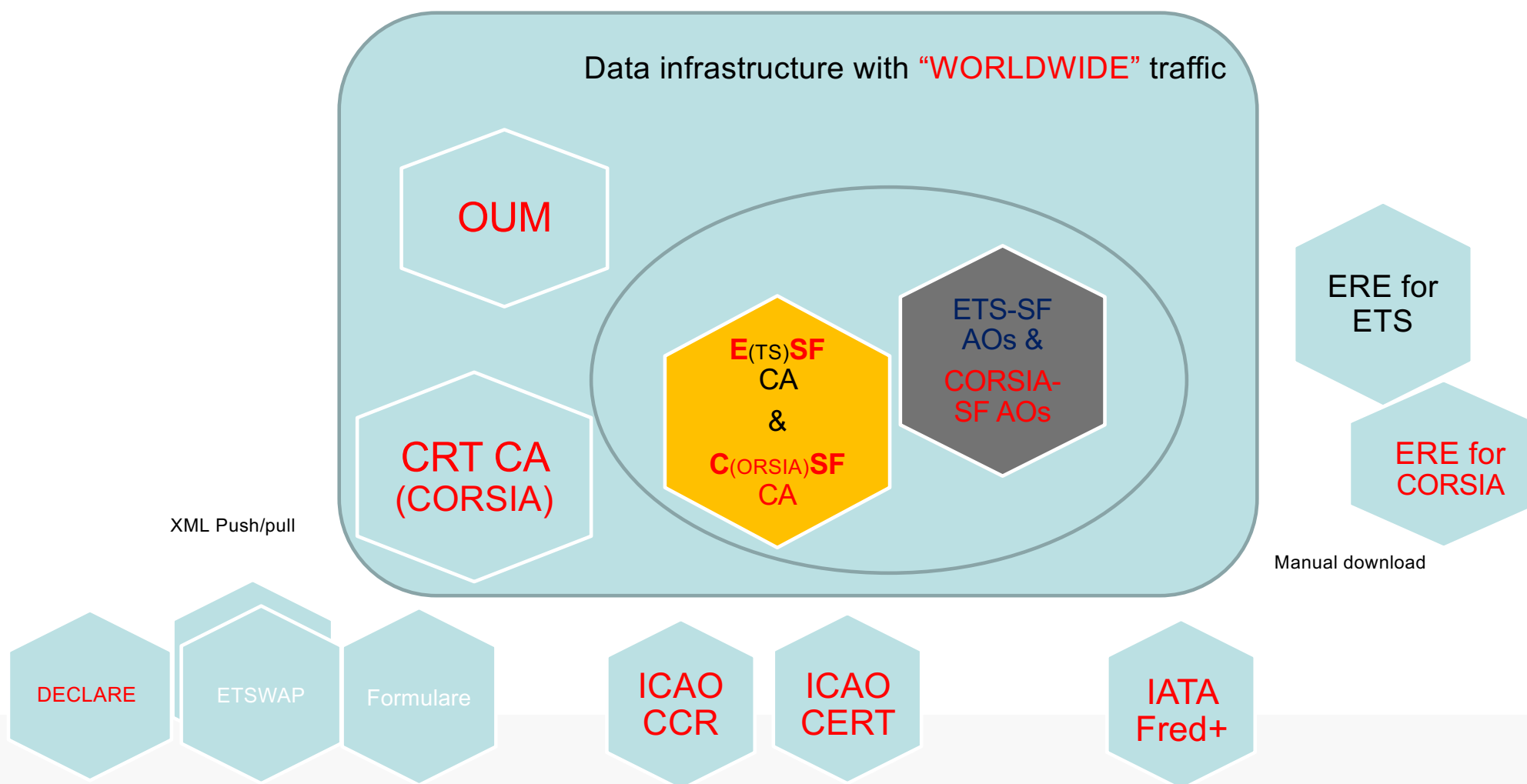
### **EU ETS Support Facility (ESF) - transposition of present ETSSF from .NET to JAVA**

- Support to EEA States in implementing ETS
- Support to aeroplane operators in complying to ETS (can include third parties authorised by operators, e.g. verifiers, service management companies, leasing companies)

### **CORSIA Support Facility (CSF)**

- Support to ECAC, EUROCONTROL and possibly other States in implementing CORSIA
- Support to aeroplane operators in complying to CORSIA (can include third parties authorised by operators, e.g. verifiers, service management companies, leasing companies)

# EMIS architecture for CORSIA & ETS (RED are NEW)



## EMIS Organisation User Management

- Flexible users management
  - Different Agreements with different state profiles
    - EEA
    - ECAC
    - non ECAC
  - One state = One agreement with EUROCONTROL
  - Each State/CA can arrange internally modules access and logins
    - People, administrations
  - An organization is a state or group of State
  - An EMIS user is member of an organization
  - One Primary Delegated Administrator per State



## EMIS-CRT synergies ETSWAP (UK/Ireland/Belgium) and FMS (Germany)

- A specific dedicated XML simple schema is being defined by EUROCONTROL with interested parties
- CORSIA element of AERs will loaded by ETSWAP/FMS into CRT
  - manual files upload by State
  - automatic eventually in the future (web service)



## DECLARE possible/future synergies with EMIS-CRT

Background: verified aviation AERs are stored/available in DECLARE

- AERs do include both ETS **and** CORSIA information
- DECLARE could help the upload AERs for CORSIA into the CRT for each DECLARE State
  - automatic eventually in the future (web service)
    - Tests performed in the past from ETS to DECLARE
  - CORSIA element of AER will be parsed and loaded automatically into CRT

## EUROCONTROL activities on critical path - Enablers (by Jan 2020)

- Integration in all EMIS modules of the new (A)ER Excel template from European Commission
- Database Re-design as CORSIA scope has high impact on it
- Contract with Innovata/FlightGlobal for worldwide traffic data (flight schedules)

## Other EUROCONTROL activities before march 2020

- CRT module: prototype and test/shadow operations
- CSF module: prototype and test/shadow operations
- ESF module prototype and test/shadow operations: Present ETS-SF is to be used until ESF is available
- Define a dedicated XML schema for data exchanges between ETSWAP/FMS and CRT
- Contract for worldwide ADS-B traffic data (observed flights)