ETS Support Facility
Overview

Bruxelles, 16 January 2012
Stefano Mancini

Content

- EUROCONTROL

- Information availability and sources

- ETS Support Facility

- How can it be used

- Issues, thoughts, facts & figures
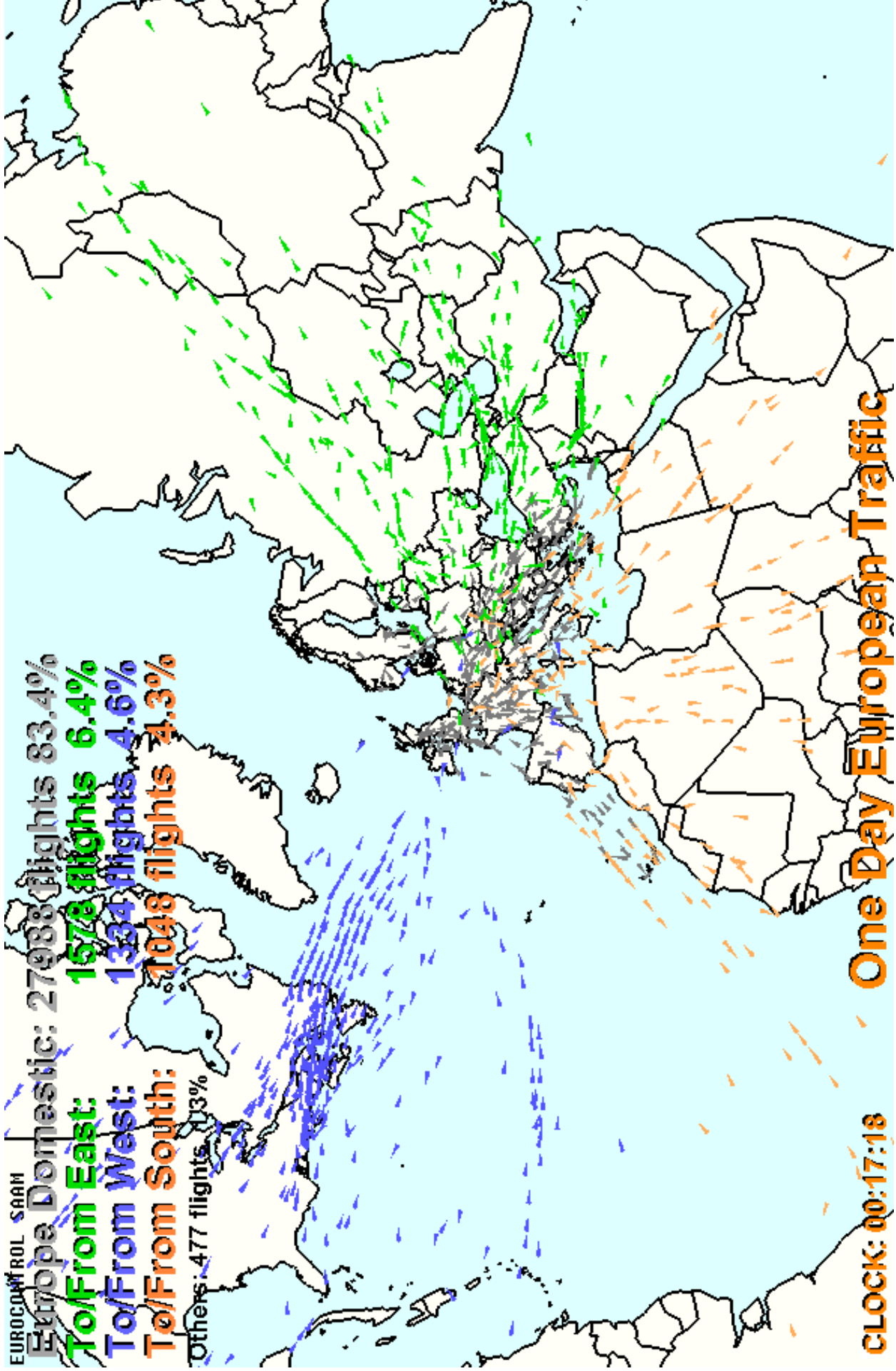
EUROCONTROL SAAM

Europe Domestic: 27088 flights 83.4%
To/From East: 1578 flights 6.4%
To/From West: 1334 flights 4.6%
To/From South: 1048 flights 4.3%
Others: 477 flights 1.3%

One Day European Traffic

CLOCK: 00:17:18

EUROCONTROL

Information Coverage & Coherence

The EU ETS Legal Framework

- Directive 2008/101/EC: inclusion of aviation in the EU ETS

- Commission Decision 2009/339/EC: monitoring & reporting

- Commission Decision 2009/450/EC: exemptions

All measures refer to EUROCONTROL to possibly support the monitoring, reporting and verification processes

EUROCONTROL Member States

2200+ Employees in 4 Countries

Brussels

Headquarters

Central Flow Management Unit

Central Route Charges Office

Maastricht

Upper Area Control Centre

Brétigny-sur-Orge

Experimental Centre

Luxembourg

Institute of Air Navigation Services
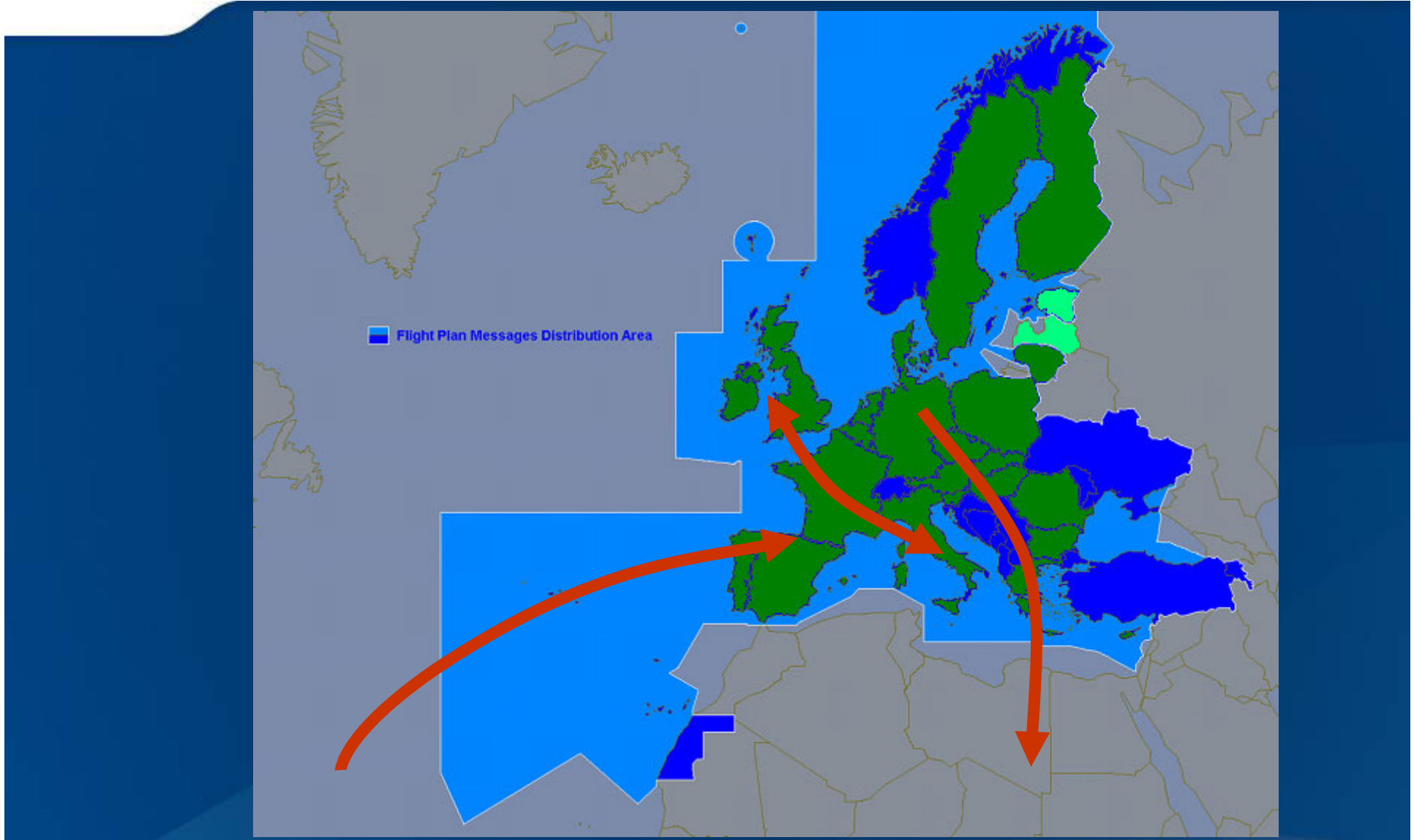
Information Available in EUROCONTROL

- Flights
  - Central Route Charges Office (CRCO, 1971)
  - Central Flow Management Unit (CFMU, 1996)

CRCO Flights Scope

CFMU Flights Scope

Flight Plan Messages Distribution Area

Information Available in EUROCONTROL

- Flights
  - Central Route Charges Office (CRCO, 1971)
  - Central Flow Management Unit (CFMU, 1996)

- Other Aviation Information (Admin Data)
  - European AIS Database (EAD) - airports
  - ICAO – aircraft types, AO designators
  - CRCO – fleets, (billed) operators

- Additional information needed for ETS purposes
  - Actual operator
  - Flights Estonia, France OMR, Iceland not in CRCO

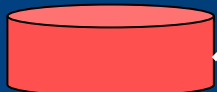# ETS Support Facility & Small Emitters Tool

CRCO traffic

Process 1 :
reassessment of aircraft
operators for ETS

ICAO Aircraft Type Designator (doc 8643)	Distance (Nm)	Estimated Fuel (Kg)	Estimated CO2 (Kg)	Calculator Message
A310	1,543	17,818	56,127	Ok
A320	798	5,500	17,325	Ok
B732	1,109	8,137	25,632	Ok
C560	785	1,264	3,982	Ok
AT72	458	1,173	3,695	Ok
F100	878	4,805	15,136	Ok
RJ85	987	6,219	19,590	Ok
E145	478	1,593	5,018	Ok

Non-CRCO Admin data

EUROCONTROL's Support via the ETS-SF

European Commission

EU List
HAE

EUROCONTROL
ETS Support Facility

Competent
Authorities

Since 17 Jan 2011

AER
FDR

>5000

Aircraft

Operators

Accredited
Verifiers

1 March 2011 for 2010
1 February 2012 for 2011
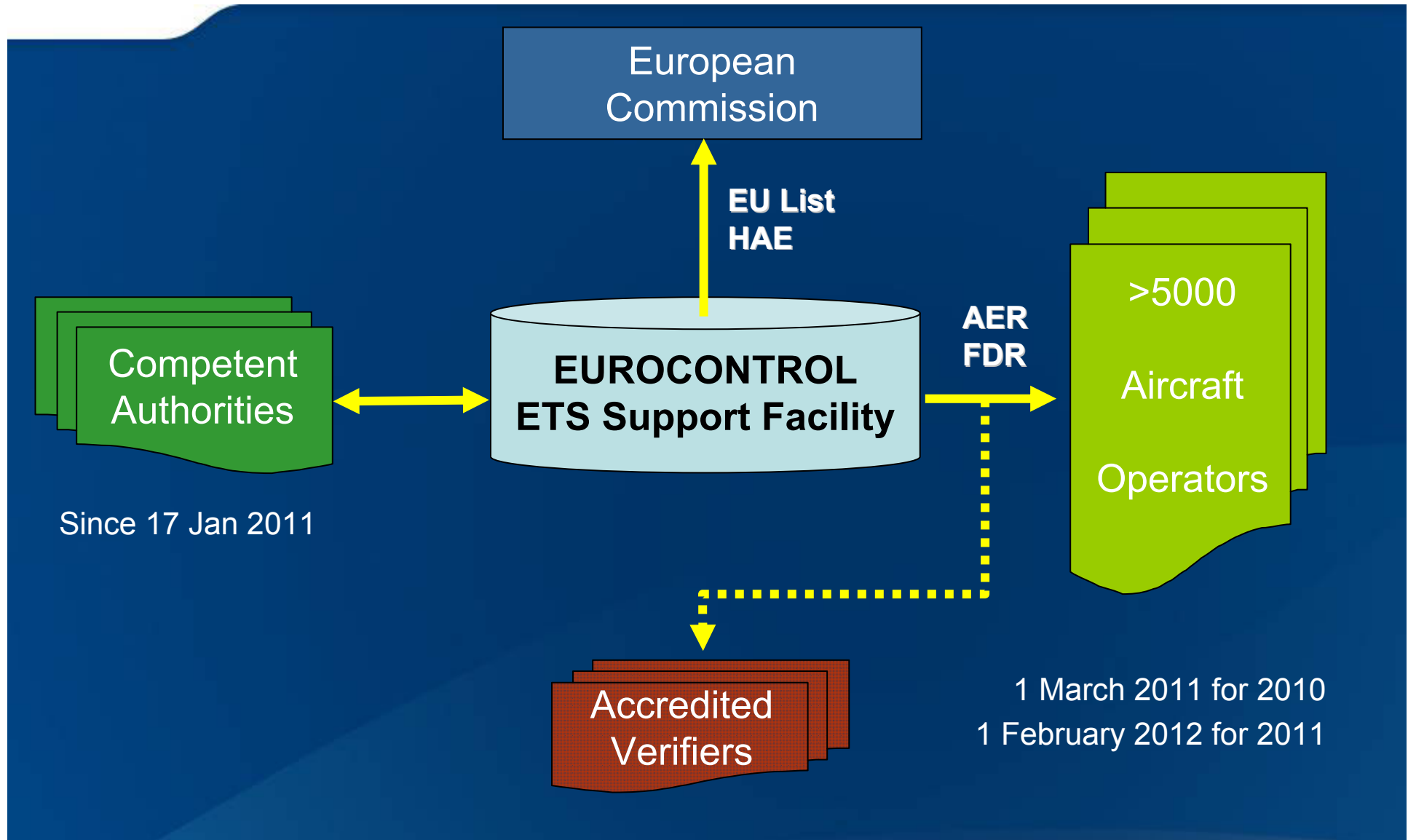
Coordination with Competent Authorities

European Commission

CCC

Compliance Forum

DG CLIMA

Aviation TF

Steering Group with States Clients of the ETS SF

EUROCONTROL

States clients of ETS SF

States signed contract

States committed to sign

Croatia joining EU in 2013

Not signed
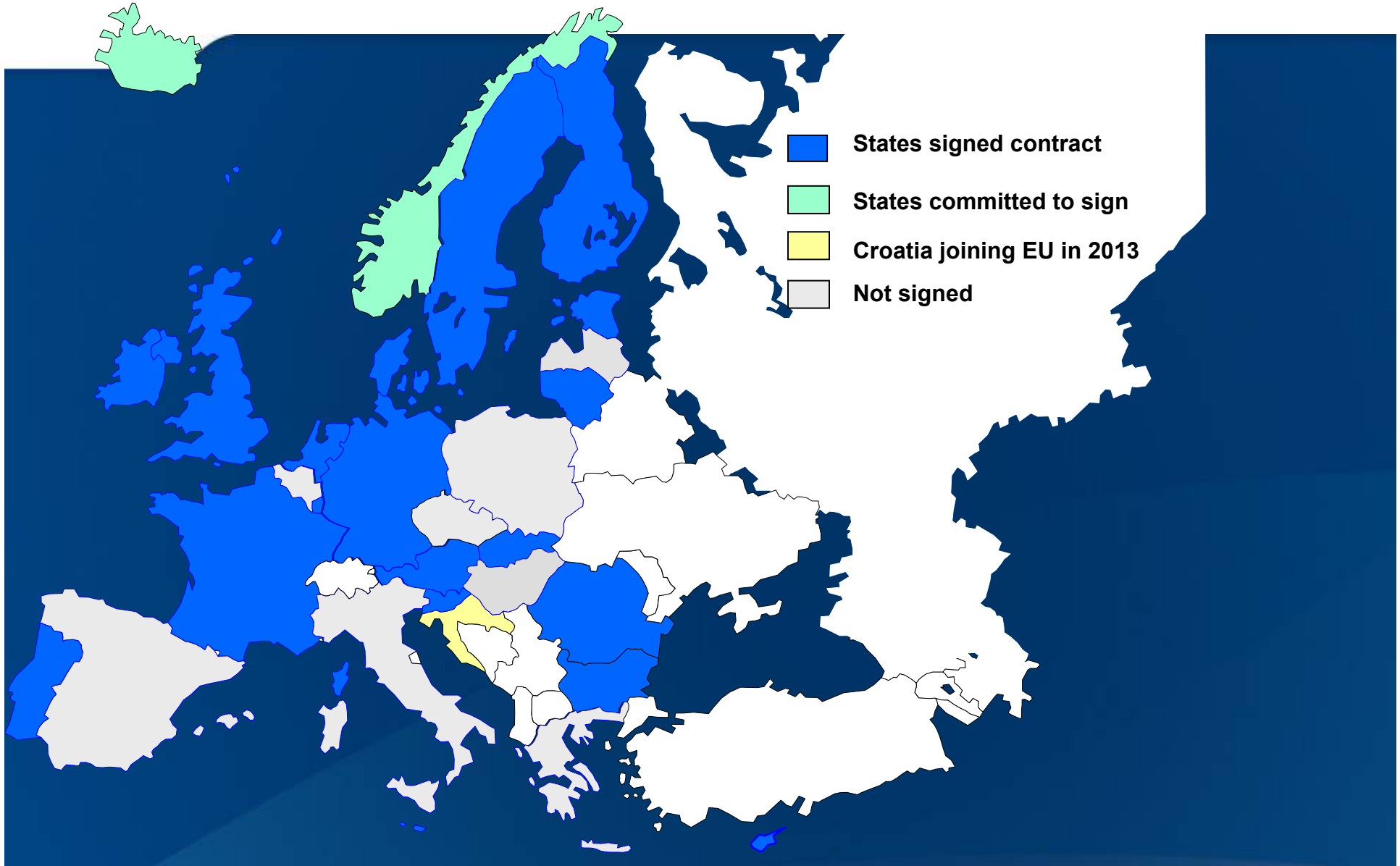
Support to Aircraft Operators

Draft AER

EMISSION DATA OVERVIEW

4 Information about the monitoring plan

(a) Reference of approved annual emission monitoring plan:

(b) Version number of the approved monitoring plan:

(c) Have there been any deviations from your approved monitoring plan during the reporting year?

　○ Yes　　○ No

(d) If you have answered yes, please describe all relevant changes in the operations and all deviations from your approved monitoring plan, providing information about each deviation and the consequence for the calculation of annual emissions.

5 Total emissions

(a) Total number of flights in the reporting year covered by the EU ETS:　101

(b) Fuels used:
Please enter the total fuel consumption in tonnes in the reporting year per fuel in the table below. The emission factor (either in the column "EF [t CO2 / t fuel]" or "EF [t CO2 / TJ]"), the Net Calorific Value (column "NCV") and the biomass content in %, if applicable. Furthermore the CO2 emissions are not calculated automatically for alternative fuels. The value of CO2 emissions refers to the fossil carbon content of the fuel only.

Name of fuel	EF [t CO2 / t fuel]	NCV [GJ/t]	EF [t CO2/TJ]	biomass content [%]	fuel consumption in reporting year [tonnes]	CO2 emissions [t CO2]
Jet kerosene	3.15	44.10	71.43	0.00	175.68	553
Total CO2 emissions in the reporting year:						553

This total emissions figure is considered the correct figure for the annual emissions. If aggregation in the sheet "Emissions Data" or in the Annex deviates from this figure, make sure that the data in all tables is consistent.

(c) Fuel use per aircraft type:
Please indicate for each fuel type used the associated generic aircraft types as listed. If aircraft types have used different fuel in the reporting period, please list them for each fuel used. The names of alternative fuels are taken automatically from section (b) above.

Name of fuel	Generic Aircraft types using this fuel (ICAO designators separated by semicolons)
Jet kerosene	CL60;LJ45

6 Use of simplified procedures

(a) Have you been using the simplified approach allowed for small emitters pursuant to section 4 of Annex XIV of the MRG?

　○ Yes　　○ No

(b) Please report the total number of flights covered by the EU ETS in each four-month period during the reporting year for which you are the aircraft operator:
The local time of departure of the flight determines in which four-month period that flight shall be taken into account.
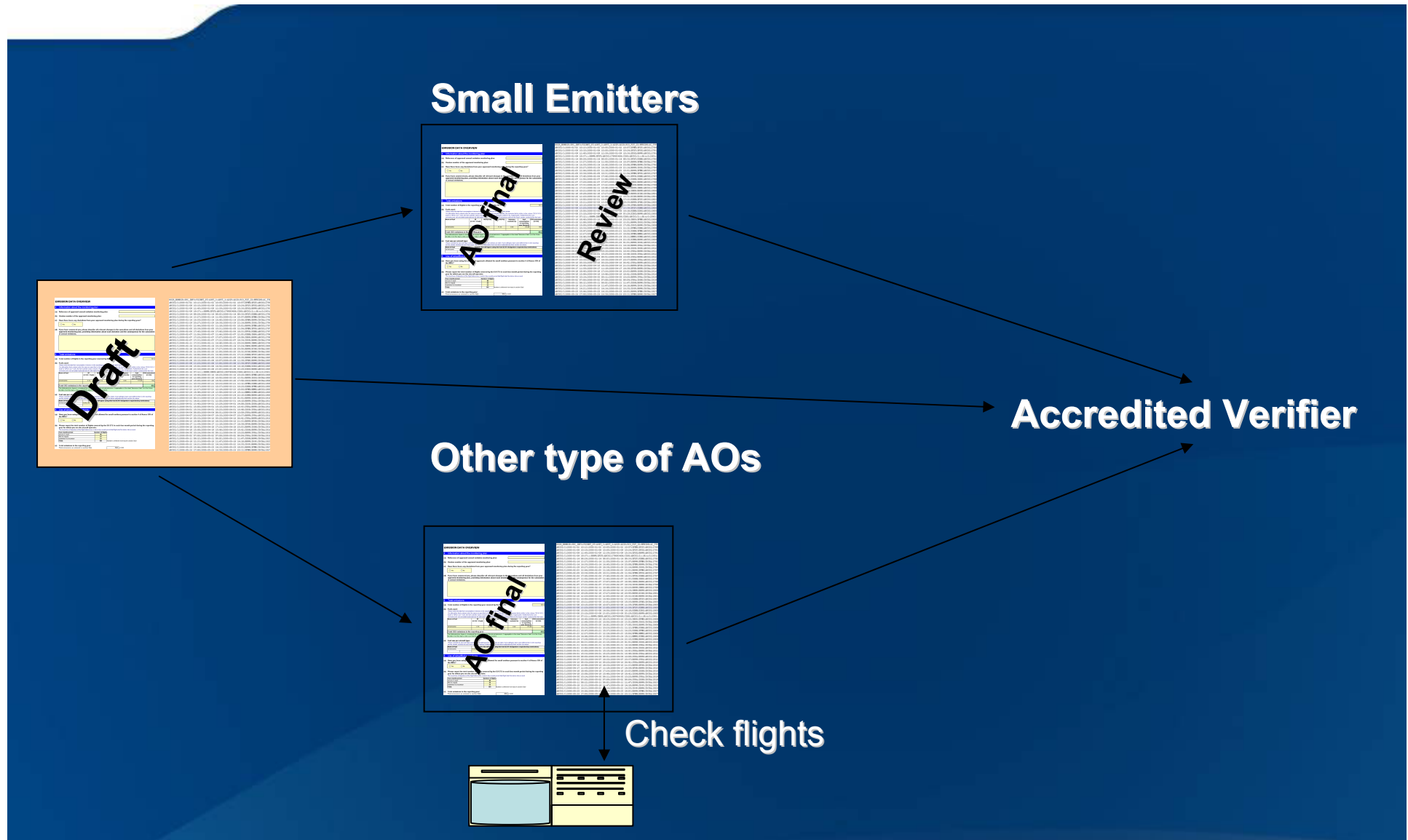
Four-month period	Number of flights
January to April	45
May to August	33
September to December	23
Total:	101

Number is different from input in section 5(a)!

(c) Total emissions in the reporting year:
Total emissions as entered in section 5(b):　553　t CO2

Flights Details Report

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What can Aircraft Operators do?

Small Emitters

Draft → AO final / Review → Accredited Verifier

Other type of AOs

Draft → AO final → Check flights

AO final → Accredited Verifier

What can Accredited Verifiers do?

High level comparison

Exemptions (demo with Excel)

Detailed comparison

AO Final

AO Info

Draft

EURO CONTROL

Request complementary information

OK
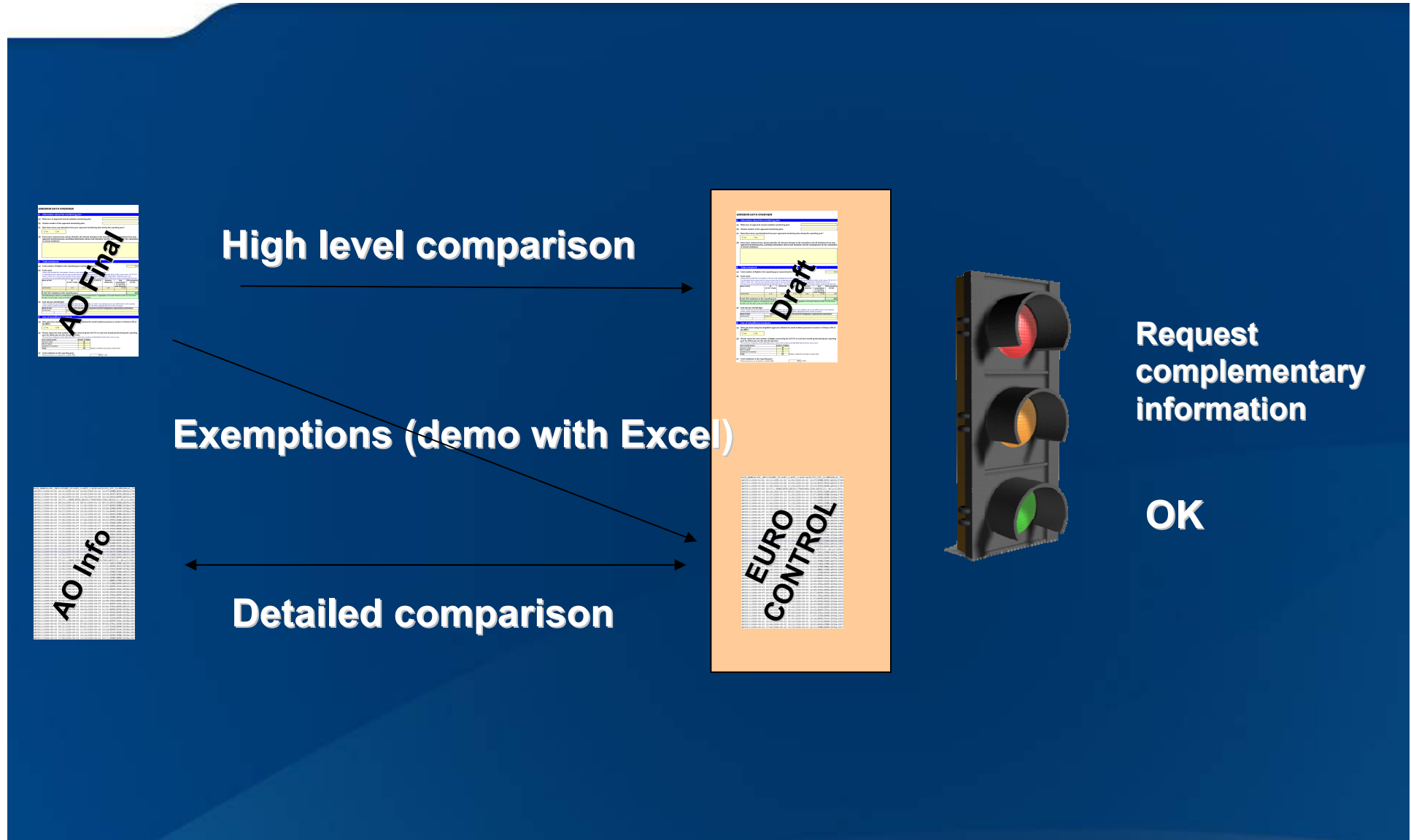
What can Competent Authorities do?
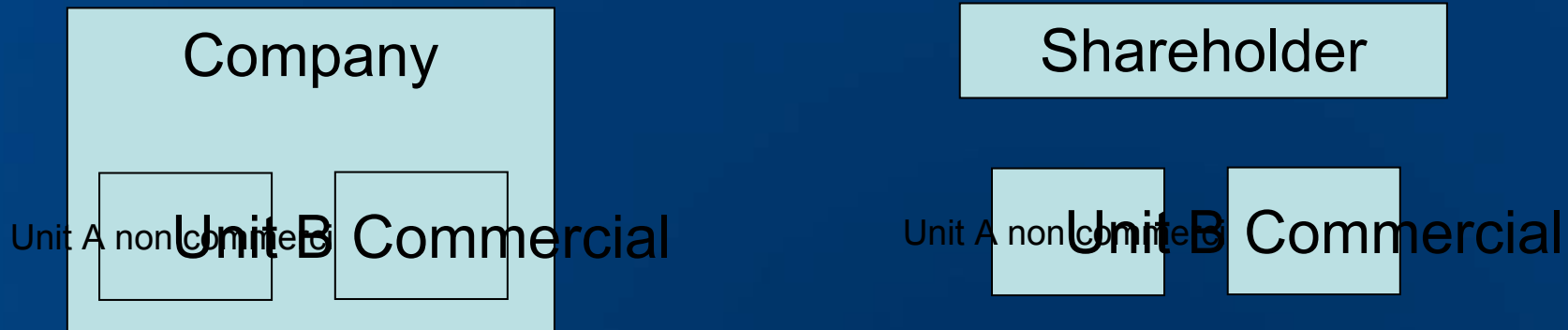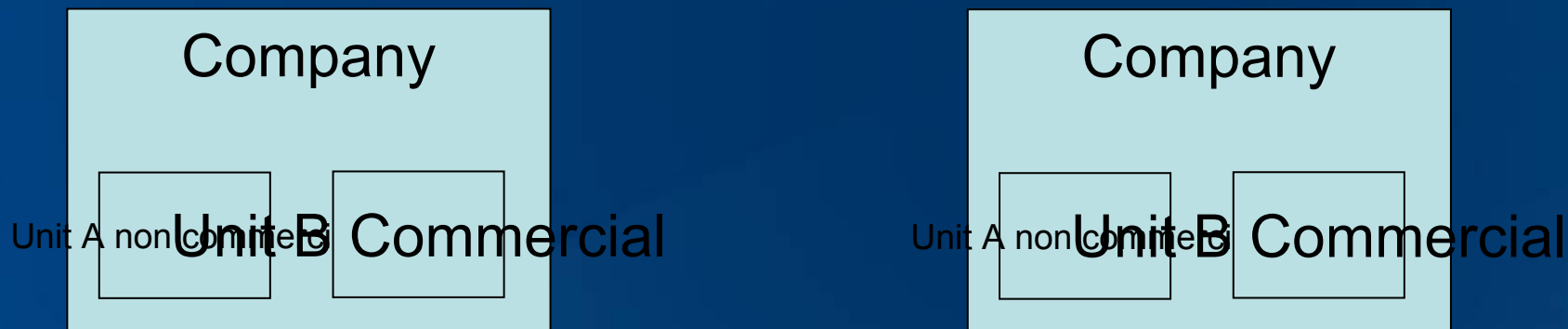
ON LINE - DEMO

Issues

- Fleet List Management (improvement planned)
- Non CRCO traffic data
- Administration of AO admin data
    - via ETS List Support Office (tools, schedule)
    - Clarity/harmisation of rules/conditions

How to identify an Aircraft Operator

One AO or two distinct AOs?

Company

Unit A non commercial Unit B
Unit B Commercial

Shareholder

Unit A non commercial Unit B
Unit B Commercial

Mergers … Splits … Take Over … Out Of Business … Move?

Company

Unit A non commercial Unit B
Unit B Commercial

Company

Unit A non commercial Unit B
Unit B Commercial

Grouping of **non** Commercial AOs

Single Reporting / Liable Entity

Unit A non commercial   Unit B Commercial   Unit A non commercial   Unit A non commercial   Unit A non commercial   Unit B Commercial
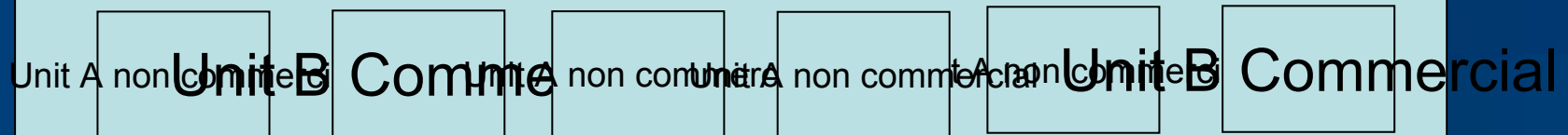
- No carbon leakage
- Economies of scale (cost savings)

Facts & Figures

- Availability of Monitoring Plans by CAs
- Operators on the EU list by State
- Operators who flew in 2010 (all traffic exempted, in) by State
- Operators who flew in 2011 (all traffic exempted, in) by State