

Brunei Aviation Environment Database Management System

Final Workshop (Aeroplane Operator)

Thossaporn THOSSANSIN

Aviation Environment Database Management System (AeDMS)

IT Expert

4 Nov 2019

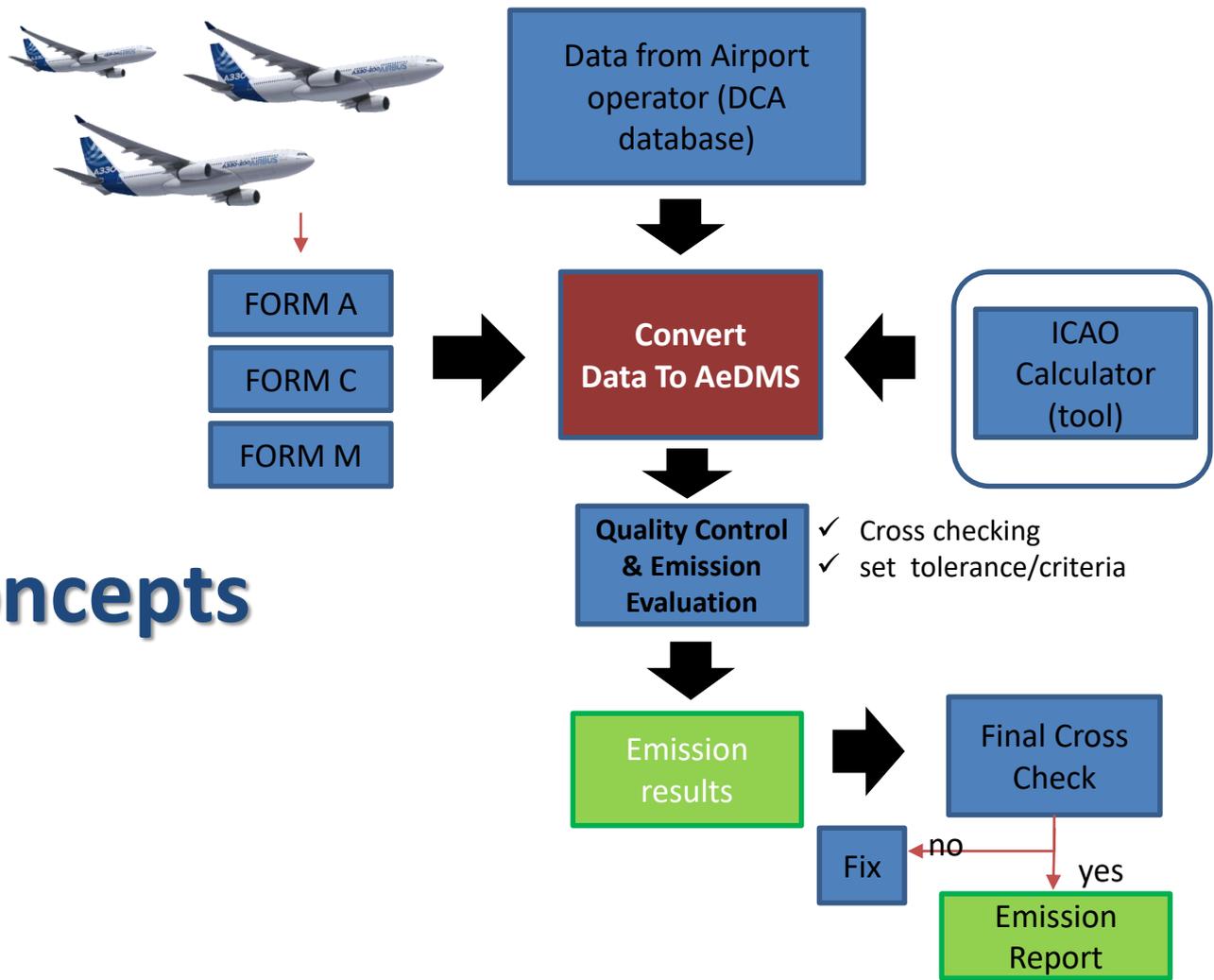
Your safety is our mission.

AeDMS^{BN} Overview Concepts

- **FORMs required to be submitted by Aircraft Operators (ICAO statistic forms)**
- **Airport Operators submit statistical ICAO FORMs to DCA Brunei periodically**
- **Data are extracted and rearranged for further use (Greenhouse Gas Emissions Evaluation)**
- **Data Validation**
- **Consolidate data and preparing them for Emissions report**

AeDMS^{BN}

Overview Concepts



Fuel Consumption



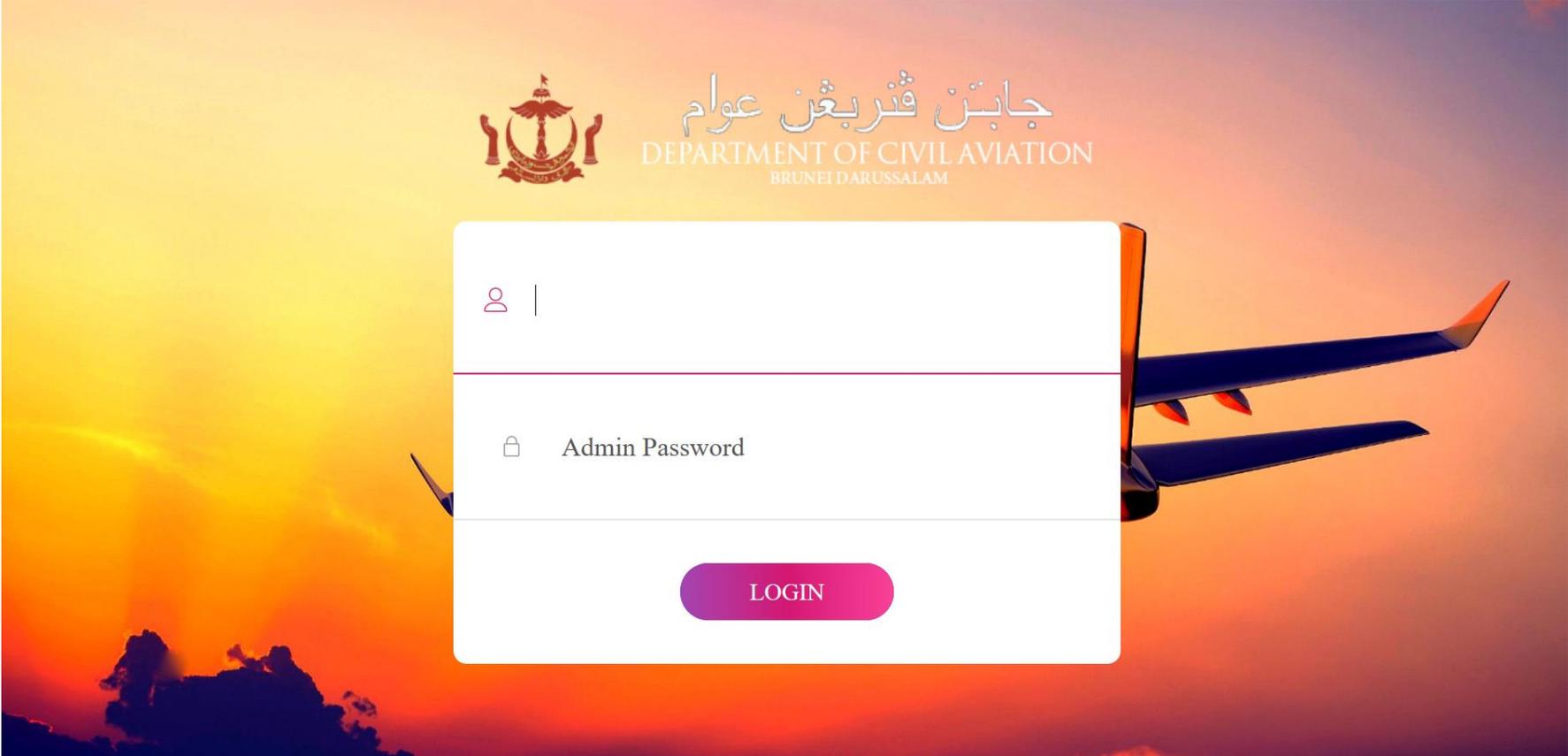
Traffic By Flight Stage



Traffic – Commercial Air Carriers



AeDMS^{BN} Overview Concepts



Main Program Function



 Home

 Emissions Data

 CORSA

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What is AeDMS

AeDMS is the first Brunei's Aviation Emission database implemented by The Civil Aviation authority of Brunei Darussalam.

Why AeDMS

AeDMS Can facilitate Brunei and Aircraft operators to manage aviation emission data systematically. It can help aircraft operator to generate report, primarily assess data quality and monitor performance

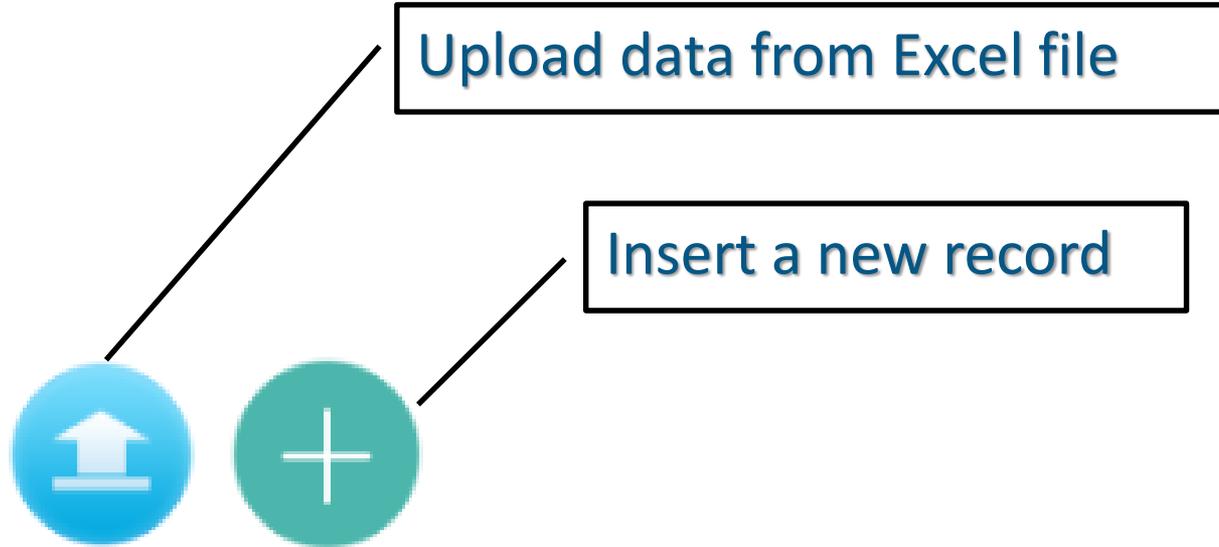
How to AeDMS

AeDMS Can facilitate Brunei and Aircraft operators to manage aviation emission data systematically. It can help aircraft operator to generate report, primarily assess data quality and monitor performance

Dashboard – International



Emission Data: Upload/Insert data



Upload Data from Excel file



Upload Form M information

[Download Form M Template](#)

Year

Browse File No file chosen

Fill in Data



MAIL: PHONE:

Emissions Data # Brunei

ADMS ^{BN}

[Home](#) [Dashboard](#) [FORM](#) [Sign Out](#)

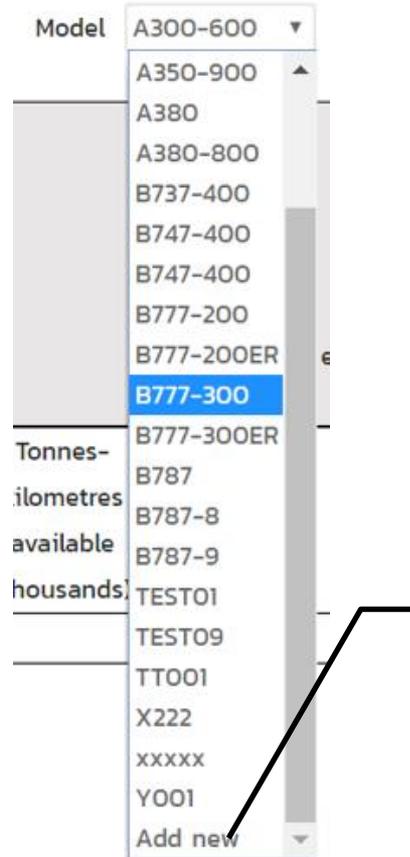
Entry FORM-M information

YEAR Model

Version code

International scheduled services			International non-scheduled services (excluding on-demand flights)			International total (scheduled and non-scheduled, excluding on-demand flights)			Total services (international and domestic, scheduled and non-scheduled, excluding on-demand flights)			
Fuel consumed (tonnes)	Tonnes-kilometres performed (thousands)	Tonnes-kilometres available (thousands)	Fuel consumed (tonnes)	Tonnes-kilometres performed (thousands)	Tonnes-kilometres available (thousands)	Fuel consumed (tonnes)	Tonnes-kilometres performed (thousands)	Tonnes-kilometres available (thousands)	Fuel consumed (tonnes)	Tonnes-kilometres performed (thousands)	Tonnes-kilometres available (thousands)	per cent of biofuels

Insert a new record for Aircraft Model



Add a new aircraft model

View: Emissions Data



Entry Form M

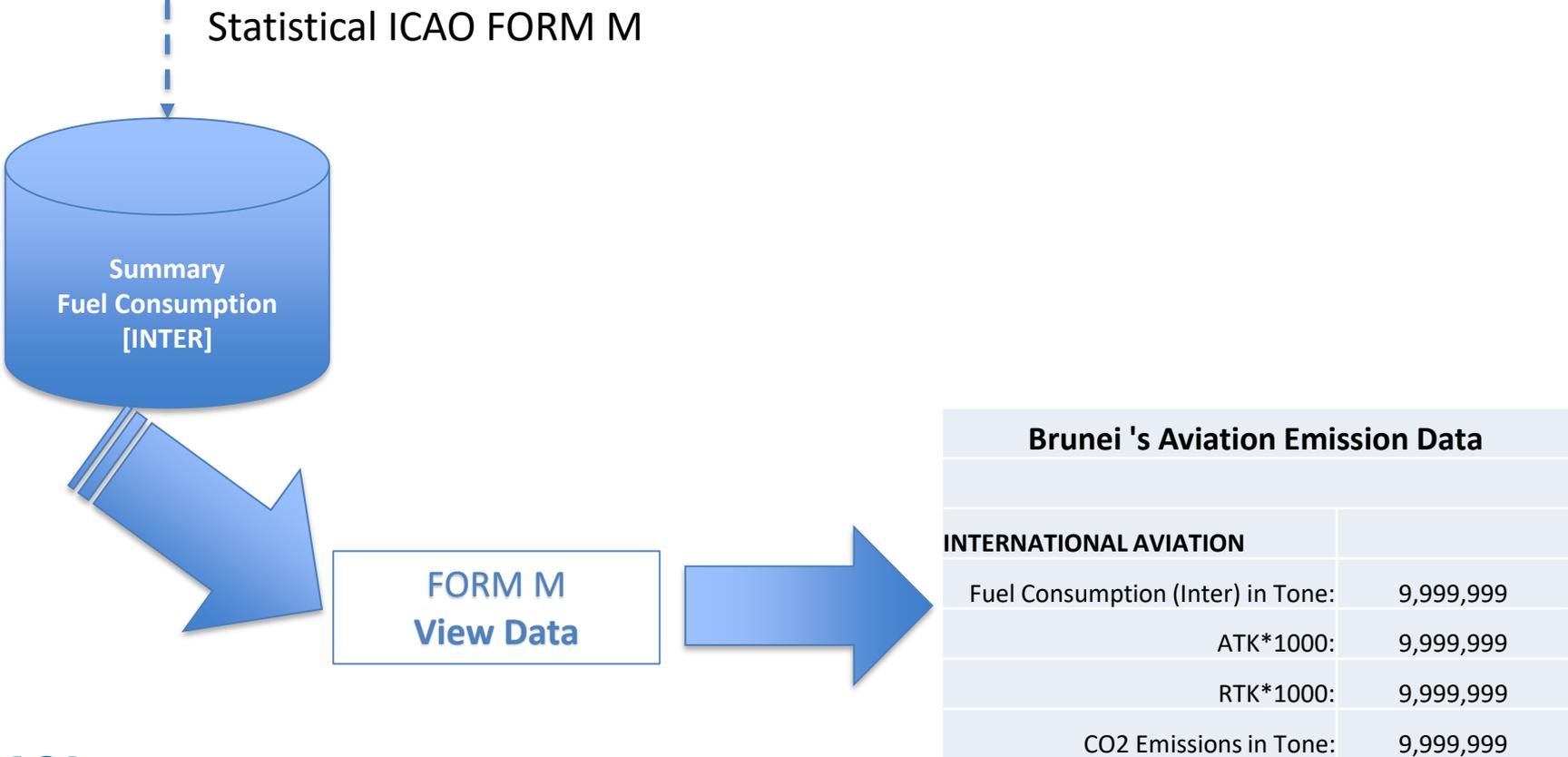
Entry year :



Model and Series	Version code	International scheduled services			International non-scheduled services			International total (scheduled and non-scheduled, excluding on-demand flights)			Total services (international and domestic, scheduled and non-scheduled, excluding on-demand flights)			Bio fuel		
		Fuel consumed (a)	Tonne-kilometres performed (b)	Tonne-kilometres available (c)	Fuel consumed (d)	Tonne-kilometres performed (e)	Tonne-kilometres available (f)	Fuel consumed (g)	Tonne-kilometres performed (h)	Tonne-kilometres available (i)	Fuel consumed (j)	Tonne-kilometres performed (k)	Tonne-kilometres available (l)			
A300-600	P	122.00	22,222.00	33,333.00	4,444.00	5,555.00	66,666.00	55,555.00	55,555.00	5,555.00	55,555.00	555.00	55.00	555.00		

[View Emission Data](#)

Database Program Structure



Entry Form C

Entry year :



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Upload FORM C from Excel File

Add a new record
on FORM C

Emissions Data: Form C-Data Entry



DoubleClick this button

Upload Form C information

[Download Form C Template](#)

Year

Browse File No file chosen

Note : 3 digit aerodrome code are belong to IATA code to help airline input the data easier.
The system will generate the report in to ICAO code automatically.

Emissions Data: Form C -Data Entry



DoubleClick this button

MAIL: PHONE: Emissions Data # Brunei

AeDMS
Brunei Environment Database Management System

Home Dashboard FORM Sign Out

Entry FORM-C information

Year : 2019

From (3 Digit Code)	From State	To (3 Digit Code)	To State	Type of Aircraft	No of flights	Passengers seat(number)	Total payload capacity(tonnes)	Passenger (number)	Freight (tonnes)	Mail (tonnes)
				Select ▼						

Note : 3 digit aerodrome code are belong to IATA code to help airline input the data easier.
The system will generate the report in to ICAO code automatically.

Save Close

Emissions Data: Form C –Data Entry

Entry Form C information

Year :		2020									
From (3 Digit Code)	From State	To (3 Digit Code)	To State	Type of Aircraft	Distance (km)	No of flights	Passengers seat(number)	Total payload capacity(tonnes)	Passenger (number)	Freight (tonnes)	Mail (tonnes)
<input type="text" value="MAN"/>	UNITED KINGDOM	<input type="text" value="PAS"/>	GREECE	Select ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Note : 3 digit aerodrome code are belong to IATA code to help airline input the data easier.
The system will generate the report in to ICAO code automatically.

Save Close

Emissions Data: Form C –Data Entry

MAIL:

PHONE:

Emissions Data # Brunei



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Entry Form C

Entry year :



Confirm	Station From	From Country	Station To	To Country	Type of Aircraft	Distance (km)	No. of flight	Passengers seats	Total payload capacity	Passenger	Freight	Mail		
	MAN	UNITED KINGDOM	PAS	GREECE	xx	1,000.00	20	400	12,000.00	8,900	2,500.00	1,500.00		

Submit to DCA

Display notification when DCA receive data, then it displays

Emissions Data: Form C – Data Entry

Export Data

-  Export to Excel (IATA Airport Code)
Export to Excel (ICAO Airport Code)
-  Export to PDF (IATA Airport Code)
Export to PDF (ICAO Airport Code)

Close

Emissions Data: Form A- Data Entry

MAIL: PHONE:

Emissions Data # Brunei



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Entry Form A

Entry year : 2018

ICAO code	Description	Unit	Including all-freight Classified by flight stage		(including in columns c and d data) Classified by flight stage	
			International	Domestic	International	Domestic
	SCHEDULED REVENUE FLIGHTS					
1010	1. Aircraft kilometres	000				
1020	2. Aircraft departures	number				
1030	3. Aircraft hours	number				
1040	4. Passengers carried	number				
1050	5. Freight tonnes carried	number				
1060	6. Passenger-kilometres performed	000				
1070	7. Seat-kilometres available	000				
1080	8. Passenger load factor	%				
	9. Tonne-kilometres performed					
1091	a) passengers (incl. baggage)	000				
1092	b) freight (incl. express)	000				
			2092	b) freight (incl. express)	000	
			2093	c) mail	000	
			2094	d) total (9a to 9c)	000	
			2100	20. Tonne-kilometres available	000	
				NON REVENUE FLIGHTS		
2330	21. Aircraft hours	number				

CORSIA: Main Function

MAIL: INFORMATION@BRUNEI DARUSSALAM

PHONE:

Brunei



 Home

 Emissions Data

 CORSIA

 Setting

 Sign Out

-> Emissions Monitoring Plan (EMP)
-> Emissions Report (ER)

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CORSIA: Emissions Monitoring Plan (EMP)

MAIL: PHONE:

Emissions Data # Brunei



Home

Upload EMP

Supporting Document

Sign Out

Upload Emissions Monitoring Plan



Create Date	Description	Status	Upload CERT	View Detail
• 30/01/2018				
• 01/02/2017				
• 21/04/2016				

Upload EMP/CERT.



DoubleClick

Upload File Excel and CERT

*Browse file : *

Description :

Browse File CERT Result 1 : optional

Browse File CERT Result 2 : optional

Please wait after click Submit

Upload Supporting Document

MAIL:

PHONE:

Emissions Data # Brunei



Home



Upload EMP



Supporting Document



Sign Out

Supporting Document

	Year	Create date	Description	
•	2018	30/01/2018		
•	2017	01/02/2017		
•	2016	21/04/2016		

CORSIA: Emissions Report (ER)

MAIL: PHONE:

Emissions Report (ER) #



 Home

 Upload Emission Report

 Supporting Document

 Sign Out

Emissions Report



	Create date	Description	Status	
•	30/01/2018			
•	01/02/2017			
•	21/04/2016			

Upload ICAO Emissions Report

MAIL: PHONE:

Emissions Report (ER) #



 Home

 Upload Emission Report

 Supporting Document

 Sign Out

Upload Emissions Report

*Browse file :

Choose File No file chosen *

Description :

Please wait after click Submit

Submit

Close

CORSIA: Upload Supporting Document

MAIL: PHONE:

Emissions Report (ER) #



Home

Upload Emission Report

Supporting Document

Sign Out

Supporting Document

	Year	Create date	Description	
•	2018	30/01/2018		
•	2017	01/02/2017		
•	2016	21/04/2016		

Live Session: AeDMS^{BN} Workshop

Step By Step:

How to integrate your emissions data into database





Thank you for your attention

easa.europa.eu/connect



Your safety is our mission.

An Agency of the European Union 