



REGIONAL TRACEABILITY TOOLS FOR FISH AND FISHERY PRODUCTS



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Regional Training on Traceability and Effective Management Tools for Fish and Fishery Products in Southeast Asia
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OUTLINES



- Importance of Catch Documentation Scheme for Fisheries management and Traceability of Fish and Fishery Products
- Introduction of electronic ASEAN Catch Documentation Scheme (eACDS)

IMPORTANCE OF CATCH DOCUMENTATION SCHEME FOR FISHERIES MANAGEMENT AND TRACEABILITY OF FISH AND FISHERY PRODUCTS

BACKGROUND



- In 2010, the EU introduced Catch Certification Scheme (CCS), whereby fisheries products must be accompanied by Catch Certificate (CC) declaring that the catch was produced in accordance with applicable laws, regulations and international conservation and management measures.
- While the Catch Documentation Scheme (CDS) should be designed to address the concerns on IUU fishing, especially as an important tool to combat IUU fishing, it should be developed from the point of view of Monitoring, Control and Surveillance (MCS) or from trade documentation perspective.
- Legally, the CCS is meant to record the origin of all the marine products arriving the EU market. This implies that EU importers must ensure that all consignments to be imported have validated certificates provided by exporters prior to the importation to the EU. Normally, the Fisheries Authority of the flag country of the vessel is responsible for the issuance of the Catch Certificate.

BACKGROUND (2)

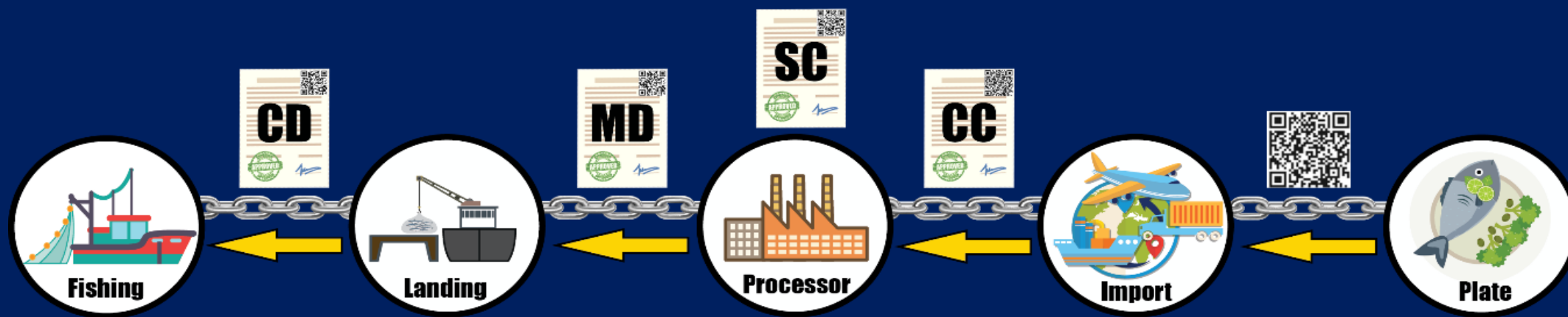


- In 2017, FAO developed the Voluntary Guidelines for Catch Documentation Schemes (VGCDs), which includes the Catch Documentation Schemes (CDSs) for wild capture fish caught for commercial purposes in marine or inland areas
- The Guidelines had been developed recognizing the relevant international laws and other international instruments, e.g. the International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing (IPOA-IUU).
- The Guidelines aims to provide assistance to States, regional fisheries management organizations, regional economic integration organizations, and other intergovernmental organizations, in their efforts towards developing and implementing new CDS or harmonizing or reviewing their existing CDSs.

WHAT IS TRACEABILITY SYSTEM?

- Trade requirements being put into force in response to the pressing needs expressed by the markets to ensure that fish and fishery products in the supply chain are not derived from IUU fishing activities.
- To facilitate the tracking of the flow of products through the production processes or the supply chain to ensure that these are safe for human consumption.
- The complete information of a batch of products flowing through the supply chain, which could be accessed by authorities for inspection purposes.

BENEFIT OF APPLY TRACEABILITY SYSTEM



1. Combating Illegal, Unreported and Unregulated (IUU) Fishing

- Verifies that fish are harvested from legal and authorized sources.
- Prevents illegally caught fish from entering the supply chain.
- Supports compliance with national fisheries laws and relevant international and regional fisheries measures.

2. Improving Food Safety

- Enables rapid identification and recall of contaminated or unsafe products.
- Tracks the origin and handling history of seafood throughout the supply chain.
- Reduces risks associated with foodborne illnesses.

3. Enhancing Consumer Confidence

- Provides transparent information on species, origin, fishing method, and processing.
- Assures consumers that products are legally sourced and caught using sustainable fishing practices.
- Builds trust in seafood products and brands.

4. Facilitating Market Access

- Meets import requirements of major markets such as the European Union, the United States, and Japan.
- Supports compliance with international regulations and certification schemes.
- Improves competitiveness in export markets.

5. Reducing Seafood Fraud

- Prevents species substitution, mislabeling, and false claims regarding origin or production methods.
- Ensures accurate product information throughout the supply chain.
- Protects both consumers and legitimate businesses.

6. Supporting Sustainable Fisheries Management

- Generates reliable catch and supply chain data.
- Improves monitoring of fish stocks and fishing activities.
- Assists fisheries managers in making science-based management decisions.

7. Increasing Supply Chain Efficiency

- Improves inventory management and logistics.
- Streamlines documentation and record-keeping.
- Reduces administrative costs through digital data exchange.

8. Strengthening Business Reputation

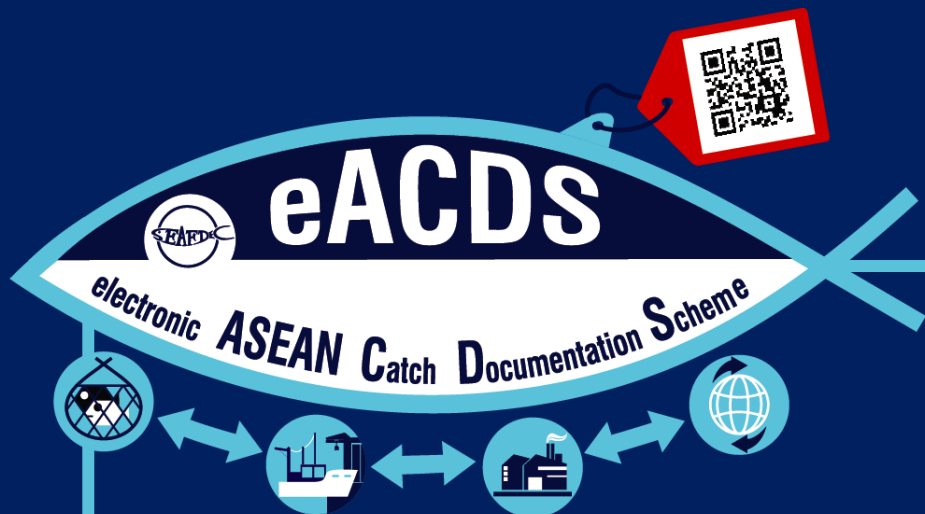
- Demonstrates commitment to legal compliance and responsible sourcing.
- Enhances brand value and customer loyalty.
- Increases confidence among buyers, retailers, and investors.

9. Supporting Fisheries Monitoring, Control, and Surveillance (MCS)

- Integrates catch information with vessel monitoring, landing, processing, and trade records.
- Facilitates inspections and audits by competent authorities.
- Improves risk-based inspections and enforcement.

10. Promoting Digital Transformation

- Encourages the use of electronic catch documentation, QR codes, blockchain, and cloud-based databases.
- Enables real-time information sharing among fisheries authorities and supply chain stakeholders.
- Improves data accuracy while reducing paperwork.



INTRODUCTION ON

ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEME (eACDS):



SEAFDEC/ TRAINING DEPARTMENT

WHAT'S eACDS ?

- ❖ A Prototype Software for Enhancing a Traceability of Fish and Fishery Products from fishing to plate
- ❖ Implementing eACDS required Good Governance in Fisheries Management: Port control, catch reporting, recording movement of fish in the supply chain, export-import, etc.

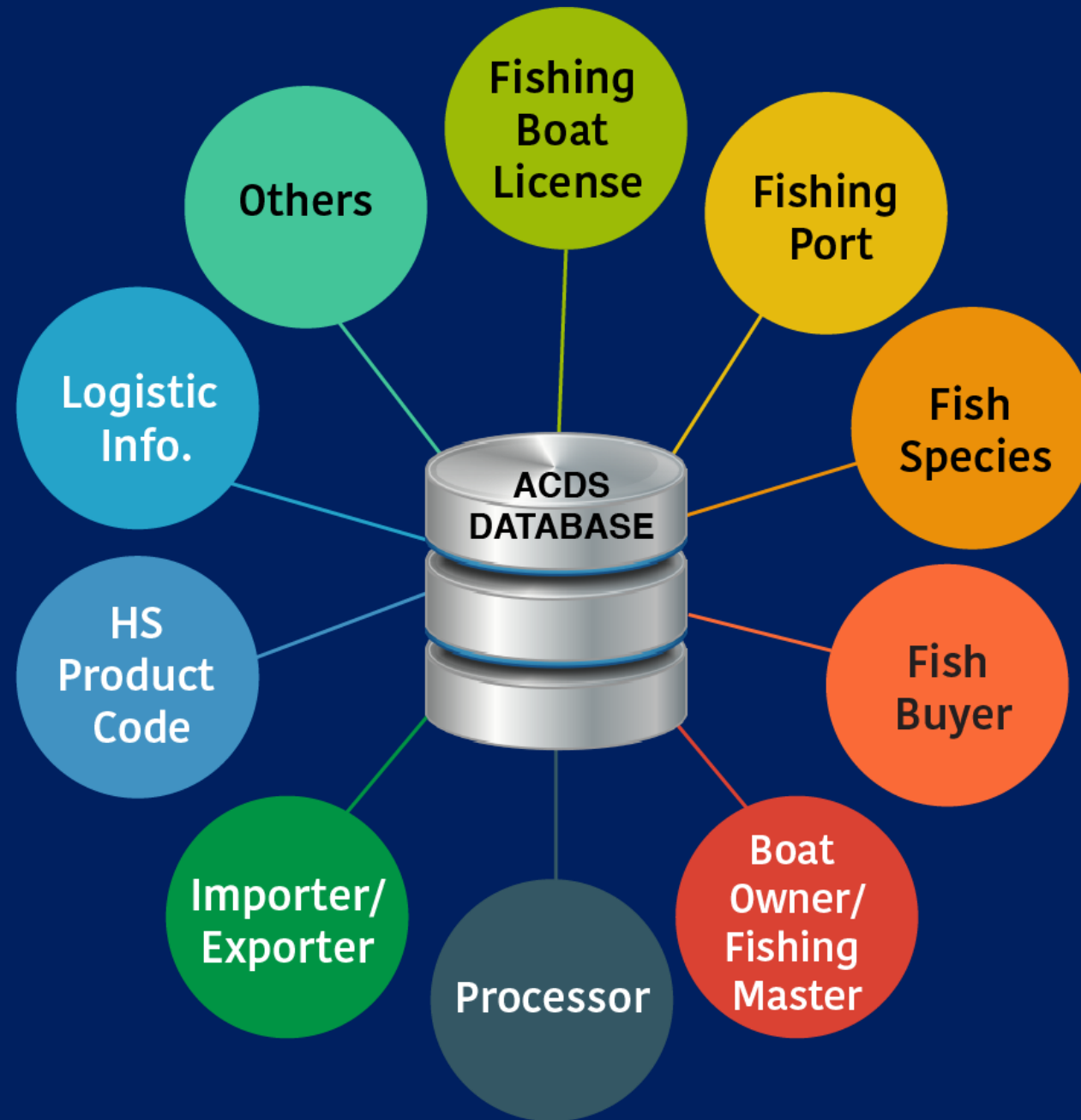


OBJECTIVES

- To introduce the eACDS as **prototype** for useful management tools for sustainable fisheries and combating IUU fishing;
- To reduce the burden of paper-works in the implementation for enhancing the traceability system for fish and fishery product;
- To strengthen the cooperation among for private-public sectors in all supply chains;
- To increase responsible and regulated fishing.



KEY DATA ELEMENTS (KDEs)



eACDS APPLICATIONS



eACDS on Web-based Application



Vessel Owner/Fishing Master

Request Port-out and Port-in



Processor

- Request Statement of Catch
- Request Catch Certificate Document

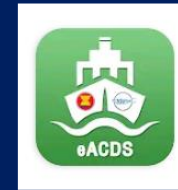


Officer

- Approve Port-out / Port-in and Verify Weight
- Issuance Catch Declaration (CD)
- Issuance Movement Document (MD)
- Issuance Statement of Catch (SC)
- Issuance Catch Certificate Document (CC)
- View Reports and Manage KDEs

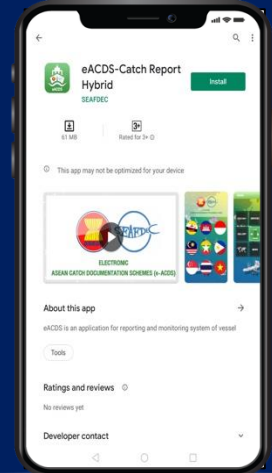


eACDS on Mobile Application



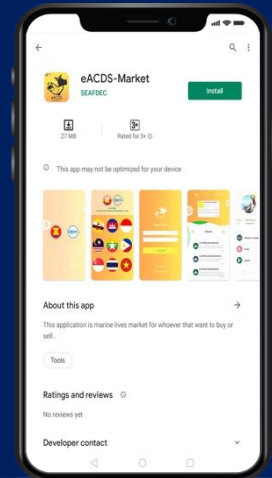
eACDS-Catch Report App.

Fishing Master/
Vessel Owner



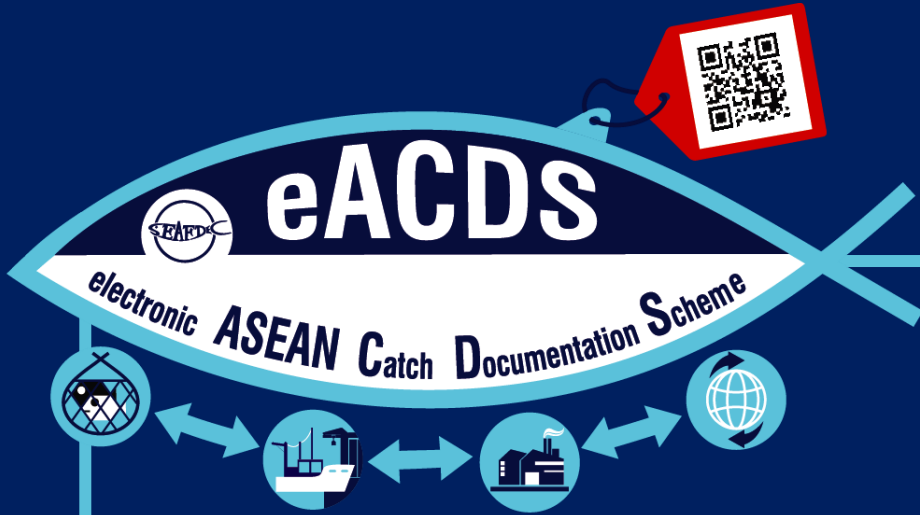
eACDS-Market App.

Seller and Buyer



eACDS SYSTEM FLOW CHART





FEATURE

ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEME (eACDS):



SEAFDEC/ TRAINING DEPARTMENT

FEATURE IN eACDS APP.

1

Request Port-out/Port-in
by Vessel Owner / Fishing
Master via Online
webpage

The screenshot displays the eACDS APP interface. A modal window titled 'PORT-OUT REQUEST' is open, showing a 'New Port-out request' form. The form includes the following fields:

- Vessel Name: Select Vessel (dropdown)
- Port-out Name: La Gi (dropdown)
- Purpose: Fishing (dropdown)
- Fishing zone: Tonkin Gulf (dropdown)
- Fishing Master: Enter Fishing Master Name (text input)
- Number of Crew: Enter Number of Crew (text input)
- Departure Date: Choose Time / Choose Date (calendar icon)

Buttons for 'Save' and 'Close' are at the bottom right of the modal. The background shows a table of fishing vessels with columns for #, CD Number, and Vessel Name. A sidebar on the left contains navigation options: Port-out, Catch Report, Port-in, Issuing MD, Issuing SC, and Issuing CC. A user profile icon is visible in the top right corner.

#	CD Number	Vessel Name
1	VNCD3007200002	9575
2	VNCD2407200003	9575
3	VNCD2207200007	9575
4	VNCD2107200003	9575
5	VNCD2606200002	9575
6	VNCD2606200001	9575

Departure Date	Status	Action
30/07/2020 (8:00)	Approved	
24/07/2020 (15:20)	Approved	
22/07/2020 (16:15)	Approved	
21/07/2020 (13:30)	Approved	
26/06/2020 (10:00)	Approved	
26/06/2020 (9:30)	Approved	

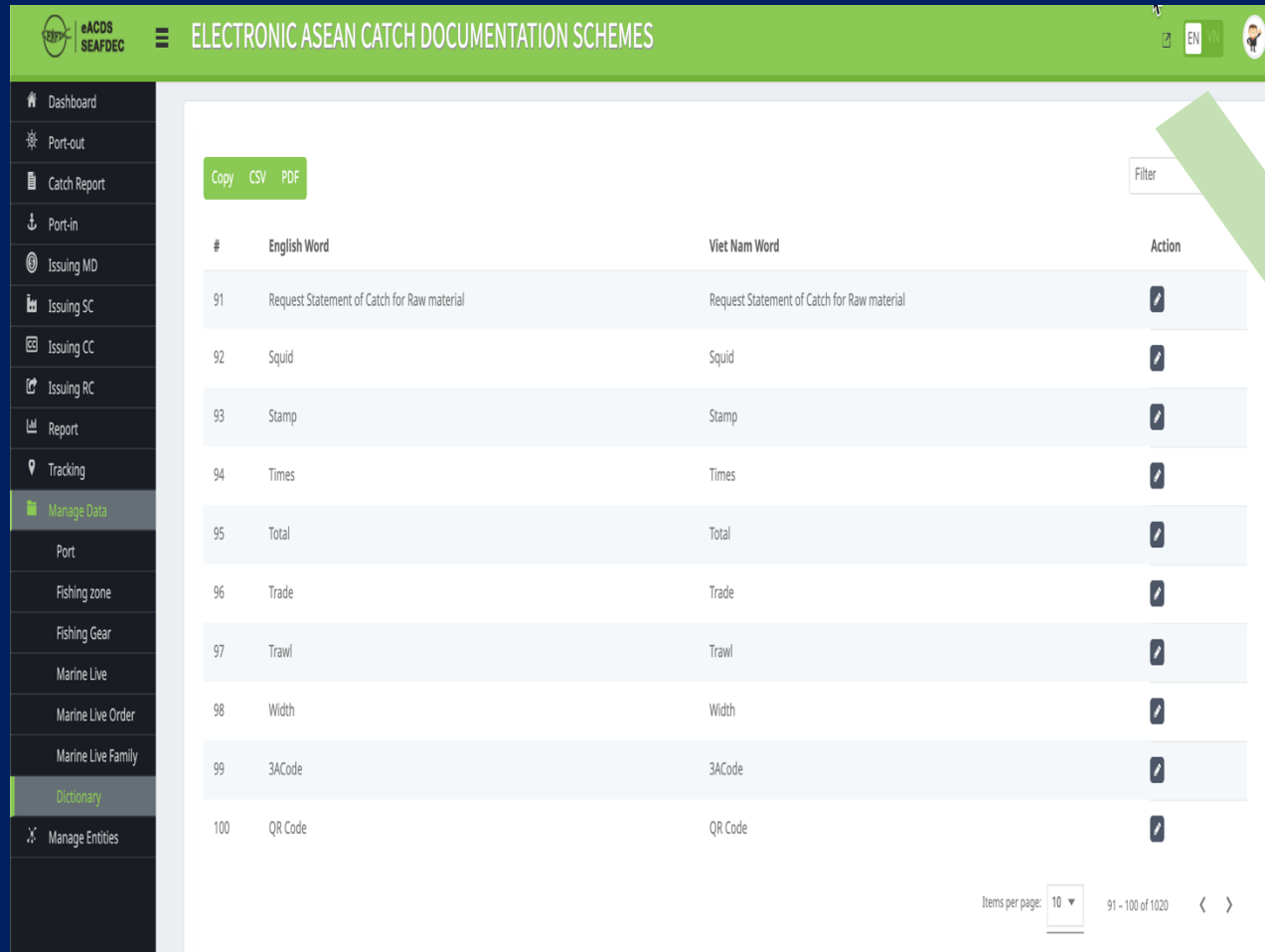
Items per page: 10 1 - 6 of 6 < >

2015-2020 © ASEAN CATCH DOCUMENTATION SCHEMES | Developed by: SEAFDEC Thailand.

FEATURE IN eACDS APP.

2

Bilingual both eACDS
Web-based and eACDS
Mobile Application
(English – Local Language)



The screenshot displays the 'ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES' web application. The left sidebar contains navigation links: Dashboard, Port-out, Catch Report, Port-in, Issuing MD, Issuing SC, Issuing CC, Issuing RC, Report, Tracking, Manage Data (highlighted), Port, Fishing zone, Fishing Gear, Marine Live, Marine Live Order, Marine Live Family, Dictionary, and Manage Entities. The main content area features a table with columns for ID, English Word, Viet Nam Word, and Action. The table lists 10 items, including 'Request Statement of Catch for Raw material', 'Squid', 'Stamp', 'Times', 'Total', 'Trade', 'Trawl', 'Width', '3ACode', and 'QR Code'. Above the table are buttons for 'Copy', 'CSV', and 'PDF', and a 'Filter' button. At the bottom right, there is a language selection UI with a green background, a document icon, and buttons for 'EN' (English) and 'KH' (Khmer).

#	English Word	Viet Nam Word	Action
91	Request Statement of Catch for Raw material	Request Statement of Catch for Raw material	
92	Squid	Squid	
93	Stamp	Stamp	
94	Times	Times	
95	Total	Total	
96	Trade	Trade	
97	Trawl	Trawl	
98	Width	Width	
99	3ACode	3ACode	
100	QR Code	QR Code	

Items per page: 10 91 - 100 of 1020 < >

FEATURE IN eACDS APP.

3

eACDS – Catch Report Application
can get Date, Start – End Position
by Operation

CATCH REPORTING

CATCH DETAIL

CD NUMBER
VNCD3107200001

FISHING NO
1

FISHING ZONE
Tonkin Gulf

START LAT... 13.5691899 LONGITUDE 100.573433

START DATE
03 - 08 - 2020 | 13:40

END LAT... 13.5690229 LONGITUDE 100.5736957

END DATE
03 - 08 - 2020 | 13:46

MARINE LIVES LIST

RECORD >

FEATURE IN eACDS APP.

4

The eACDS – Catch Report Application for Transshipment at sea via QR-Code

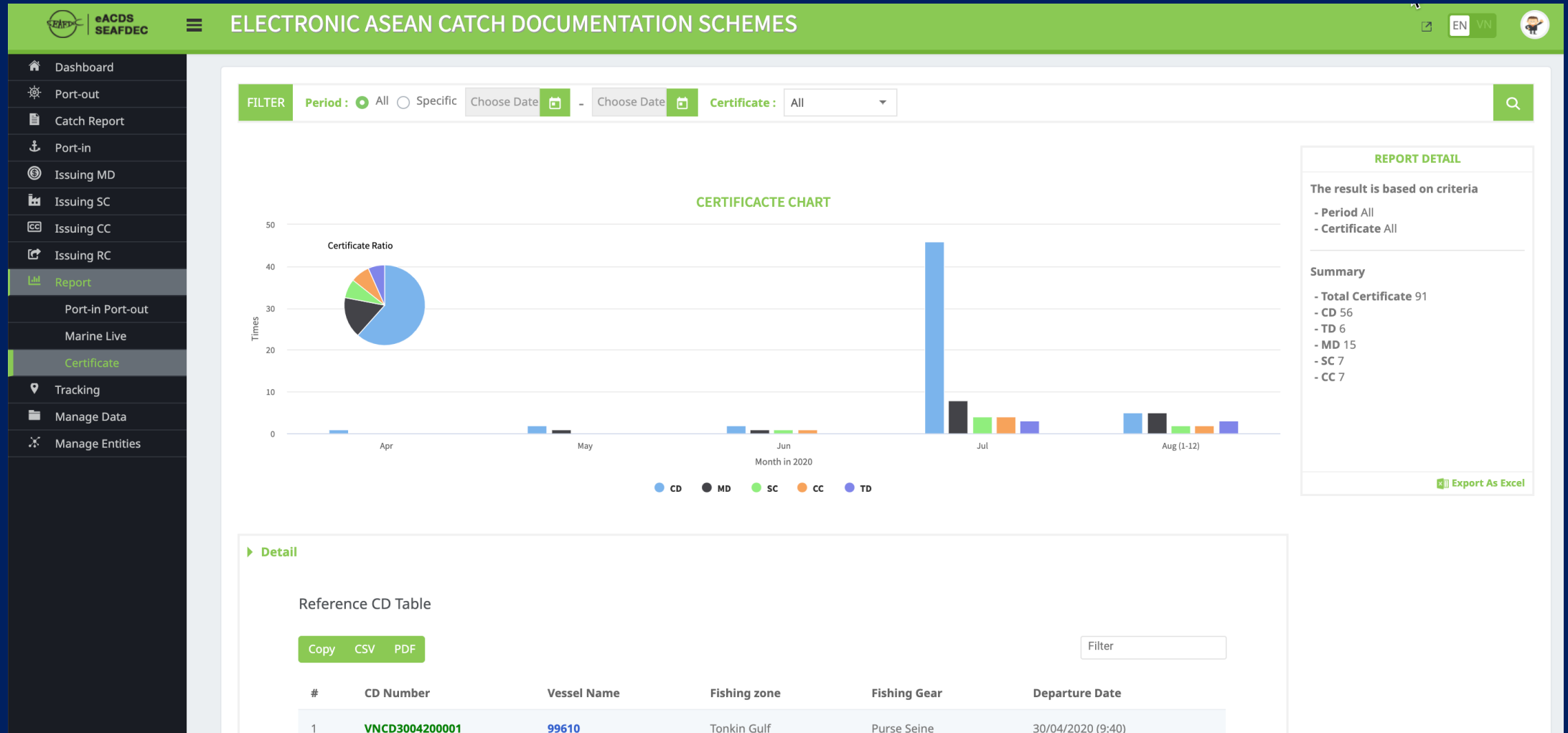


The screenshot displays the 'TRANSSHIPMENT' screen in the eACDS app. It features a 'TRANSSHIPMENT DETAIL' section with the following fields: 'SUBS CD NUMBER' (VNCD0808200002/01), 'TRANSFER DATE' (08-08-2020 | 11:50), 'CARRIER VESSEL' (Seafdec), 'TD NUMBER' (VNTD0808200001), 'LATITUDE' (13.5692156), and 'LONGITUDE' (100.5734259). There are QR code and location icons next to the vessel and location fields. Below this is a 'MARINE LIVES LIST' section with a downward arrow. At the bottom are 'RECORD' and 'TRANSFER' buttons. A hand icon points to the 'MARINE LIVES LIST' section.



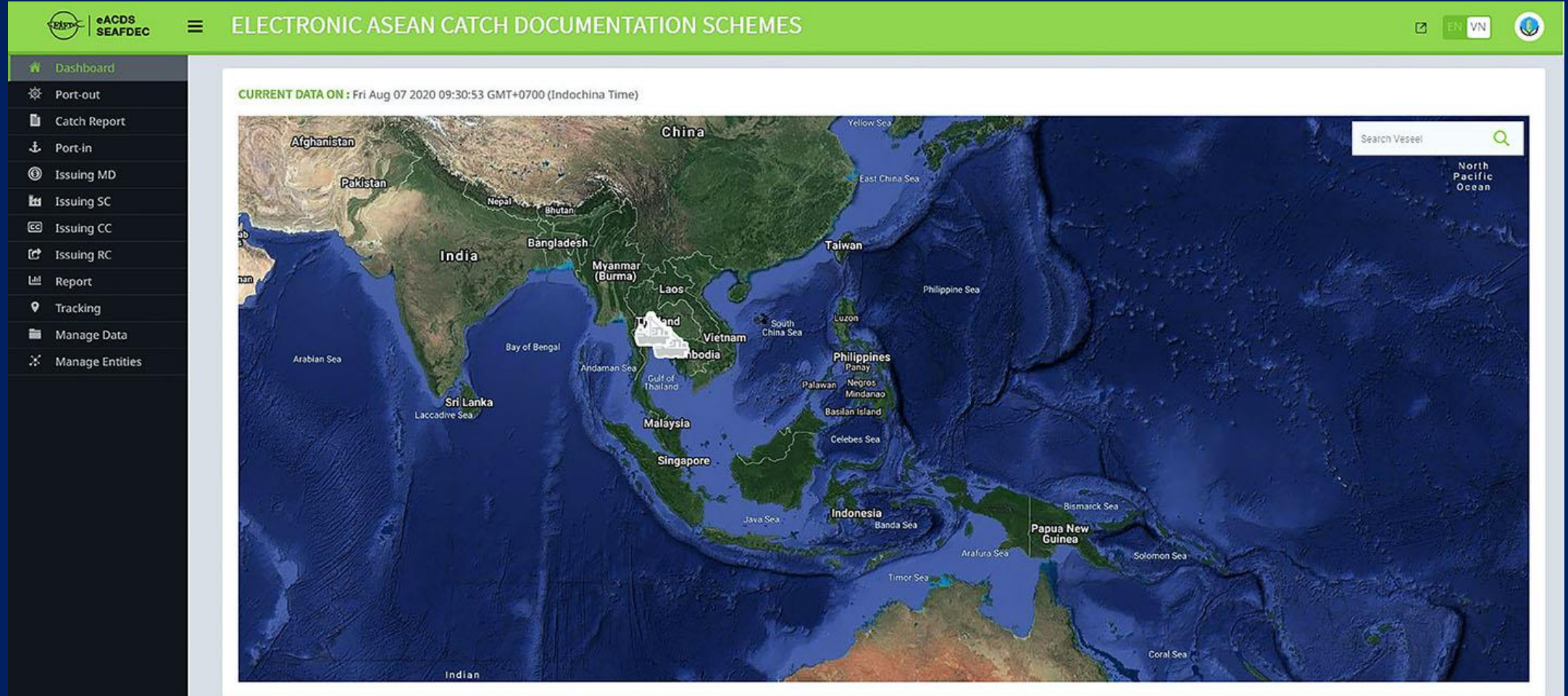
5

REPORT - Summary Report for Manager



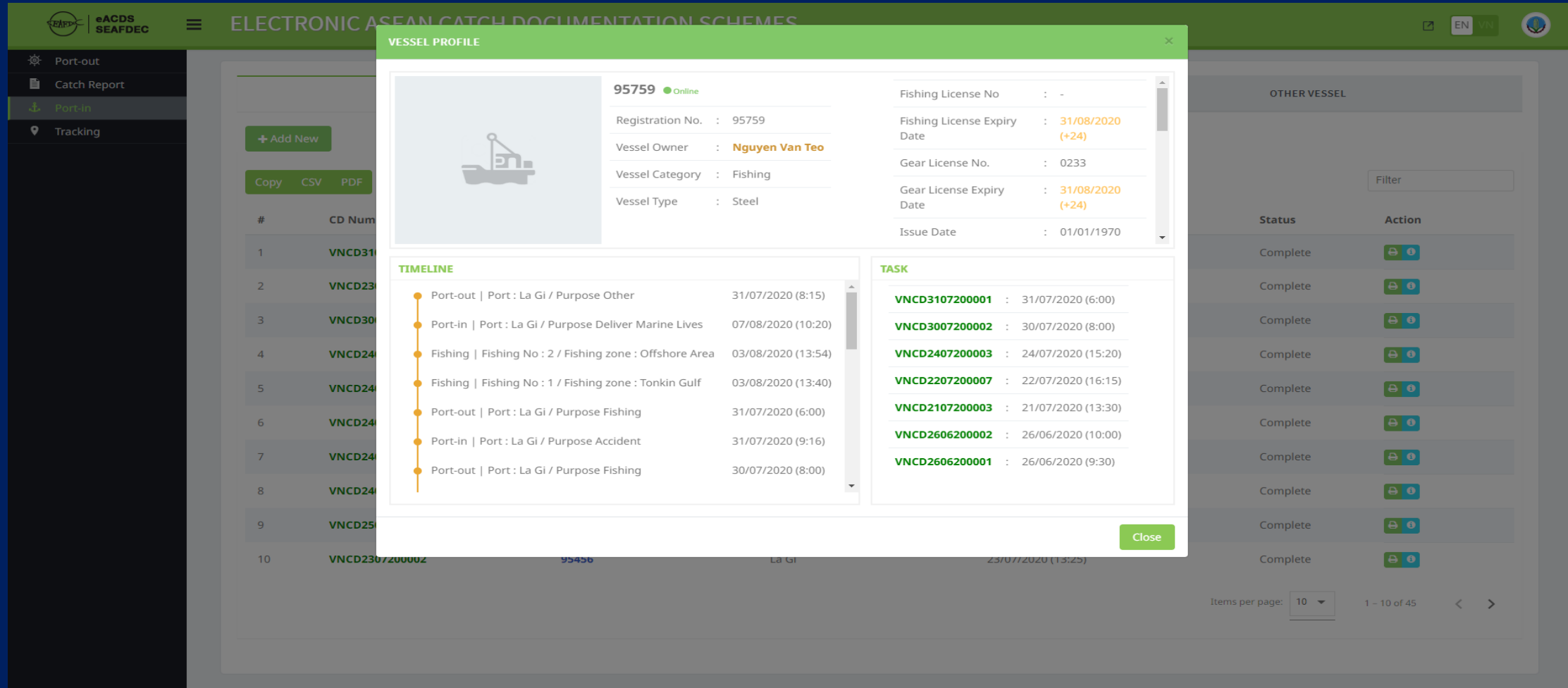
6

Status of Vessel (Online – Offline) on Mapping



7

Information and Timeline of Fishing Vessel Activities



The screenshot displays the eACDS SEADEC application interface. The main header shows "ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES". The left sidebar contains navigation options: Port-out, Catch Report, Port-in, and Tracking. The main content area shows a list of vessels with columns for #, CD Num, and other details. A modal window titled "VESSEL PROFILE" is open, displaying the following information:

VESSEL PROFILE

95759 Online

Registration No. : 95759

Vessel Owner : **Nguyen Van Teo**

Vessel Category : Fishing

Vessel Type : Steel

Fishing License No : -

Fishing License Expiry Date : **31/08/2020 (+24)**

Gear License No. : 0233

Gear License Expiry Date : **31/08/2020 (+24)**

Issue Date : 01/01/1970

TIMELINE

- Port-out | Port : La Gi / Purpose Other : 31/07/2020 (8:15)
- Port-in | Port : La Gi / Purpose Deliver Marine Lives : 07/08/2020 (10:20)
- Fishing | Fishing No : 2 / Fishing zone : Offshore Area : 03/08/2020 (13:54)
- Fishing | Fishing No : 1 / Fishing zone : Tonkin Gulf : 03/08/2020 (13:40)
- Port-out | Port : La Gi / Purpose Fishing : 31/07/2020 (6:00)
- Port-in | Port : La Gi / Purpose Accident : 31/07/2020 (9:16)
- Port-out | Port : La Gi / Purpose Fishing : 30/07/2020 (8:00)

TASK

- VNCD3107200001 : 31/07/2020 (6:00)
- VNCD3007200002 : 30/07/2020 (8:00)
- VNCD2407200003 : 24/07/2020 (15:20)
- VNCD2207200007 : 22/07/2020 (16:15)
- VNCD2107200003 : 21/07/2020 (13:30)
- VNCD2606200002 : 26/06/2020 (10:00)
- VNCD2606200001 : 26/06/2020 (9:30)

The modal window also includes a "Close" button. The background shows a table of vessels with columns for #, CD Num, and other details. The table is partially obscured by the modal window.

8

☰

Electronic ASEAN Catch Documentation Schemes

EN

VN

Dashboard

Port-out

Catch Report

Port-in

Issuing MD

Issuing SC

Issuing CC

Issuing RC

Report

Port-in Port-out

Marine Live

Certificate

Tracking

Manage Data

Manage Entities

FILTER

Period :

All

Specific

24/07/2020

-

24/07/2020

Vessel :

99448

Search Vessel

Show Landmark

STARTING IMPLEMENTATION OF eACDS



ANDAMAN
AND NICOBAR
ISLANDS

Andaman Sea

Gulf of Thailand

Malacca Strait

RIAU ARCHIPELAGO

Celebes Sea

Google

Map data ©2019 Google Thailand Terms Send feedback 200 km

MODULE OF IMPLEMENTATION

1

INTRODUCTION

2

BASELINE SURVEY
STATUS ANALYSIS

3

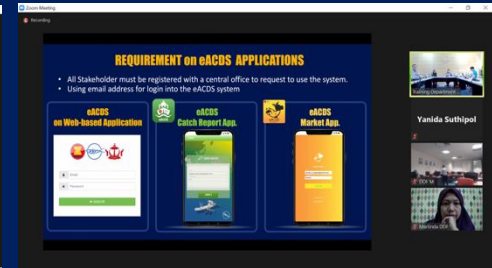
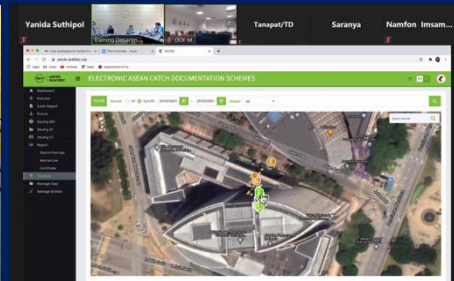
DEVELOP SYSTEM

4

TRAINING AND
TESTING SYSTEM

5

IT TRANSFER



ACHIEVEMENT OF IMPLEMENTATION

- Training and demonstration on the practical eACDS application for trainers to the effective implementation of eACDS and transfer their knowledge and understanding to relevant stakeholders.
- Participating countries trial on the use of eACDS application and successfully installed the application on its server.
- Viet Nam developed its electronic catch documentation and traceability (eCDT) based on the eACDS demonstration.



LET'S START HOW eACDS DOES IT WORK?





THANK YOU

For more information, please visit: www.seafdec.or.th



COMBATING

