



REGIONAL TRACEABILITY TOOLS FOR FISH AND FISHERY PRODUCTS



Kongpathai Saraphaivanich
SEAFDEC Training Department

Regional Training on Traceability and Effective Management Tools for Fish and Fishery Products in Southeast Asia
1-3 October 2024

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.

BENEFITS OF TRACEABILITY

- Securing food safety
- Promoting better process controls
- Securing better market niches





INTRODUCTION ON

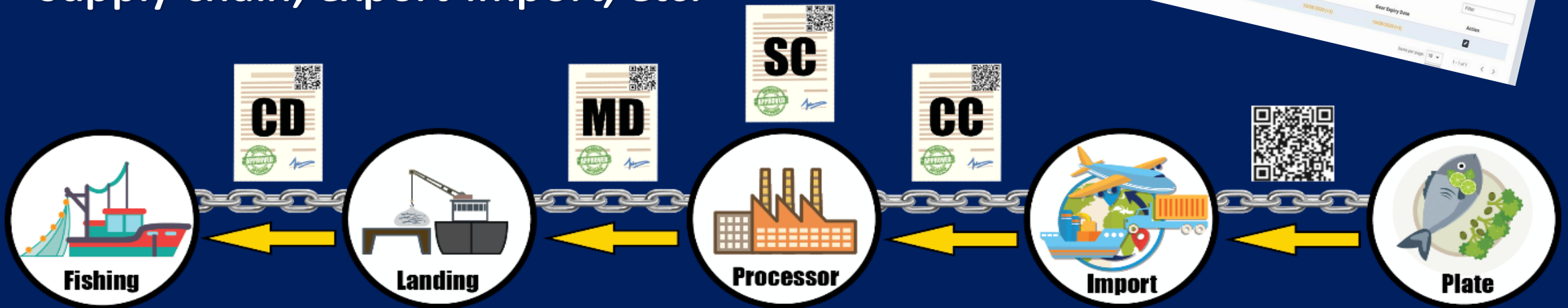
ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEME (eACDS):



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.

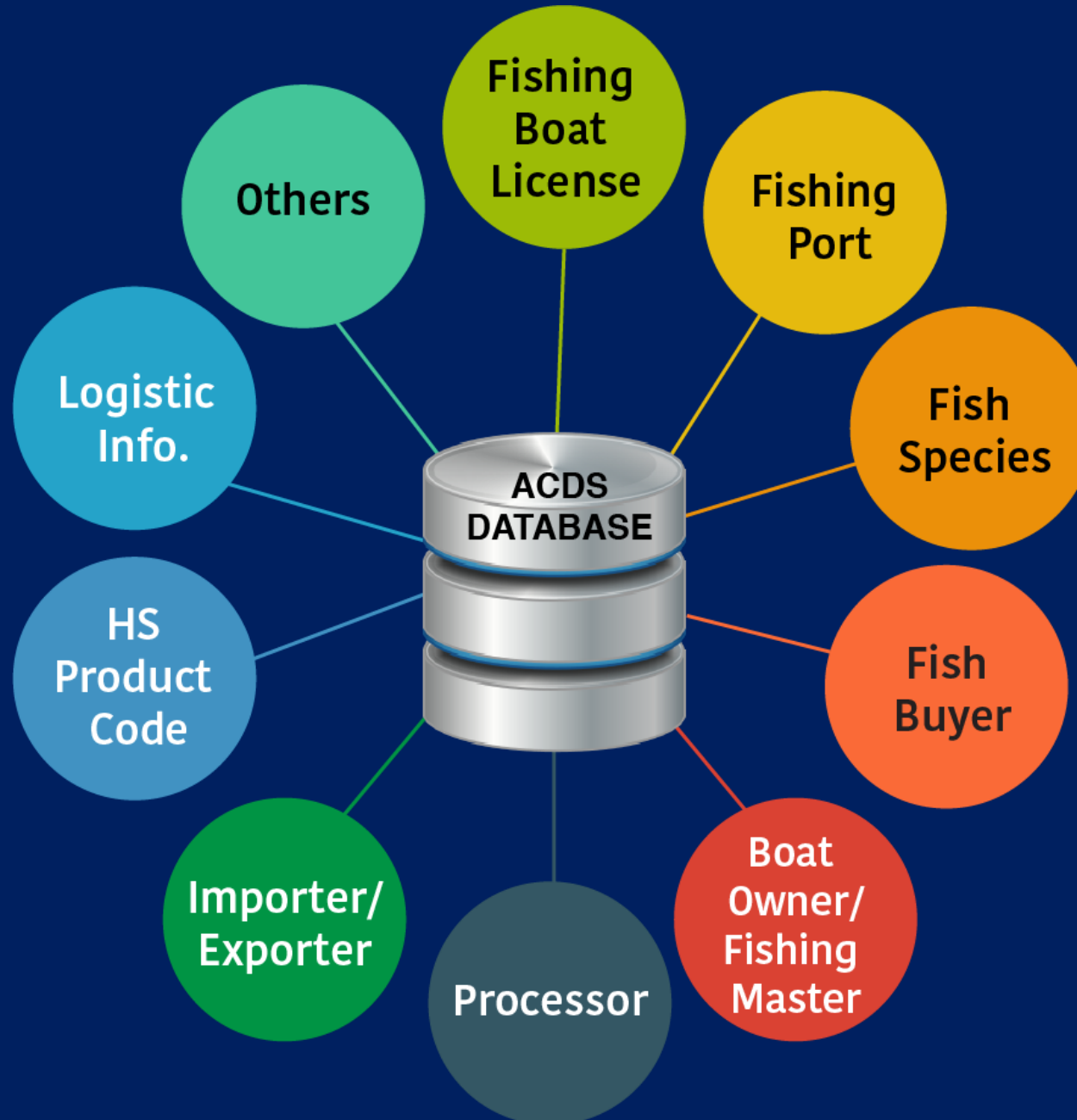


OBJECTIVES

- 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

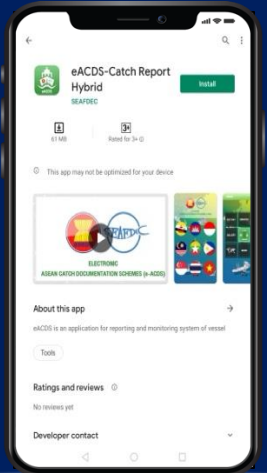


eACDS on Mobile Application



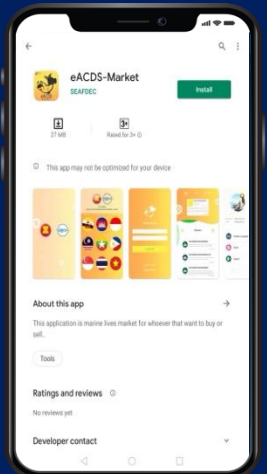
eACDS-Catch Report App.

Fishing Master/
Vessel Owner

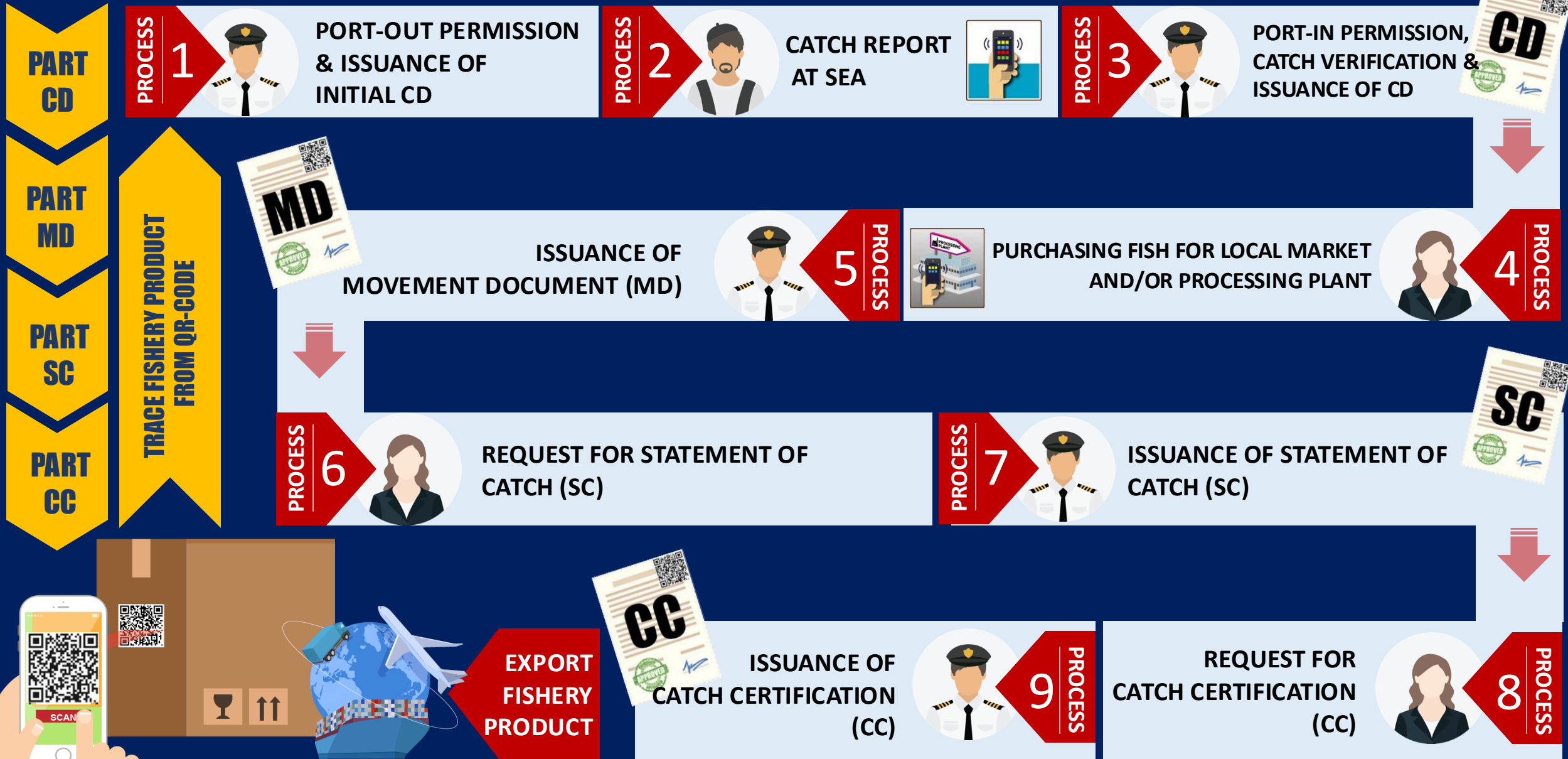


eACDS-Market App.

Seller and Buyer



eACDS SYSTEM FLOW CHART



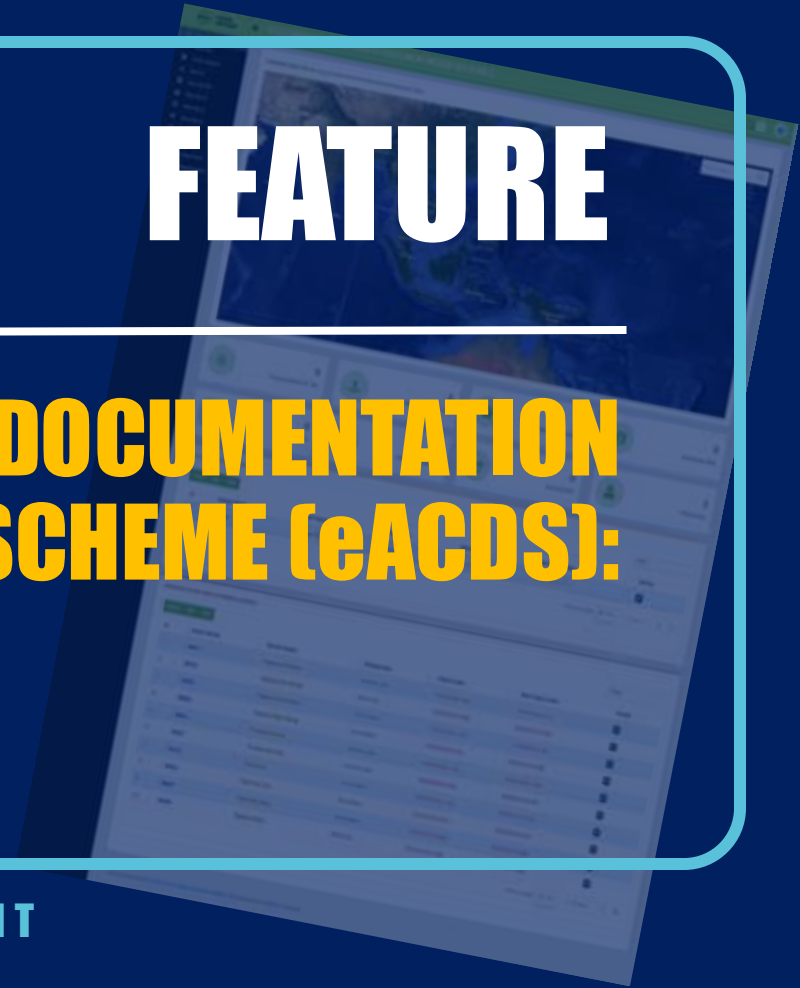


eACDS
 electronic ASEAN Catch Documentation Scheme



FEATURE

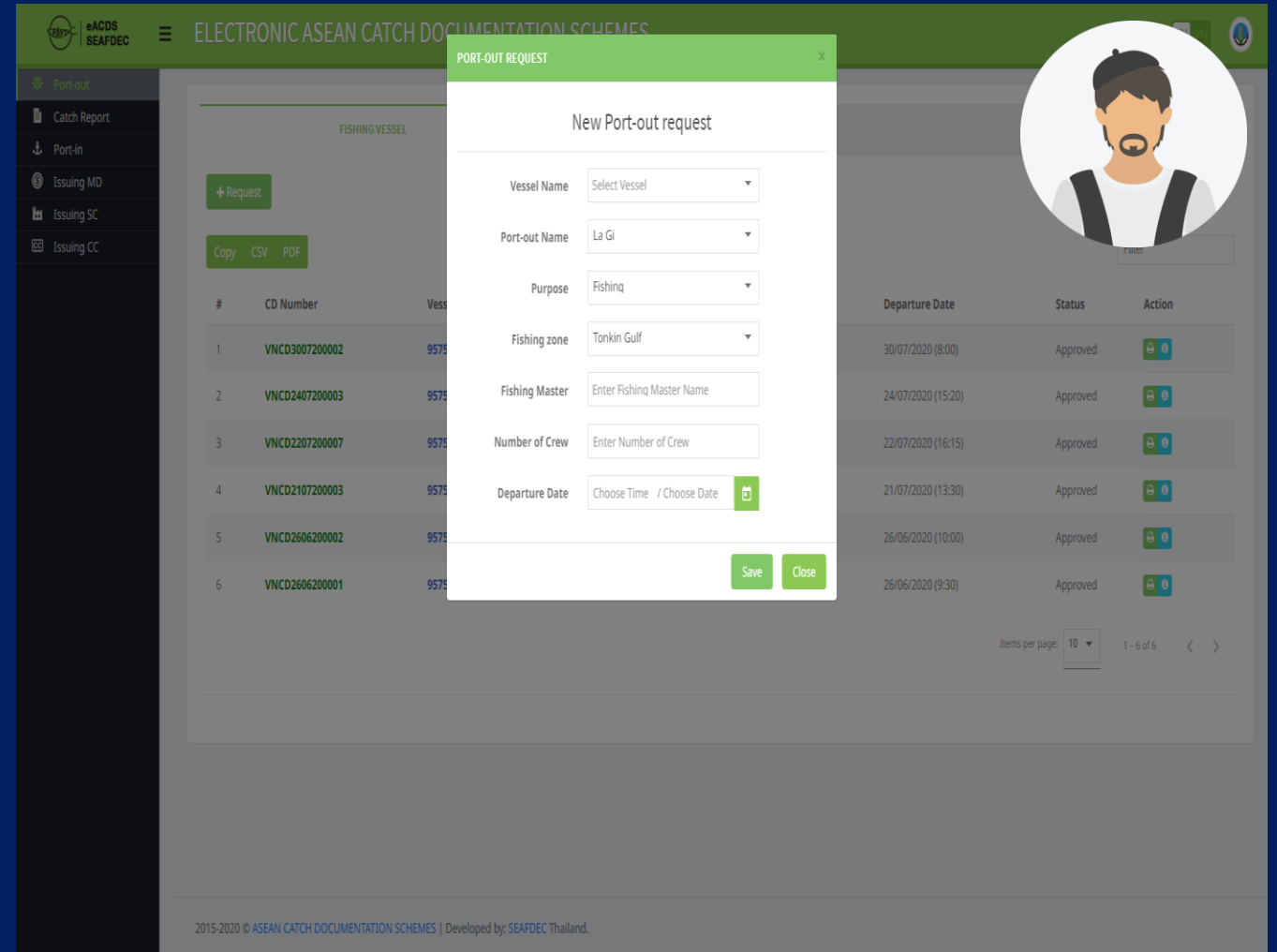
ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEME (eACDS):



FEATURE IN eACDS APP.

1

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



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

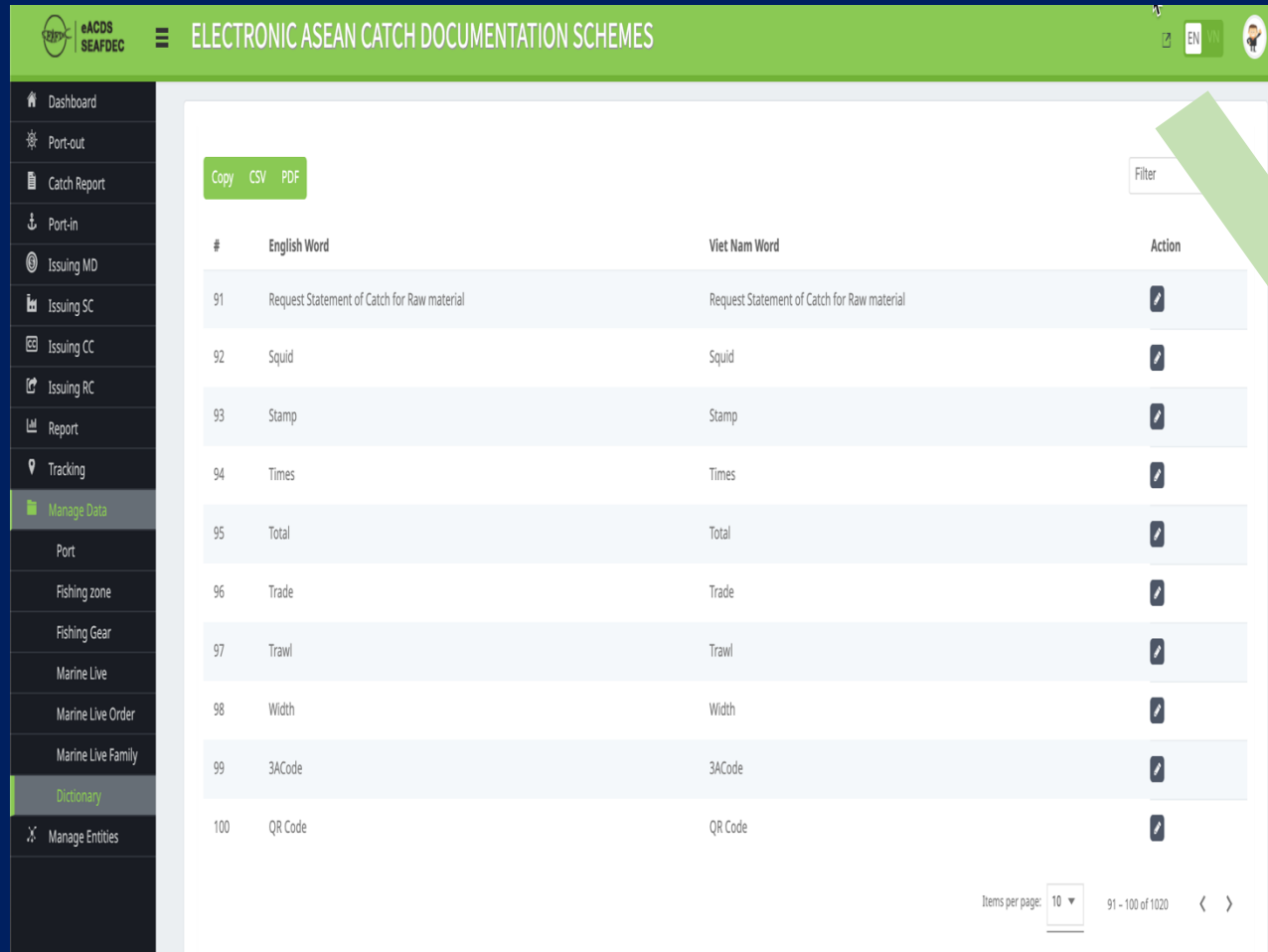
- Vessel Name: Select Vessel (dropdown)
- Port-out Name: La Gi (dropdown)
- Purpose: Fishing (dropdown)
- Fishing zone: Tonkin Gulf (dropdown)
- Fishing Master: Enter Fishing Master Name (text input)
- Number of Crew: Enter Number of Crew (text input)
- Departure Date: Choose Time / Choose Date (calendar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

At the bottom of the modal are "Save" and "Close" buttons. In the background, a table lists fishing vessels with columns for #, CD Number, and Vessel Name. The table contains 6 rows of data:

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

Below the table, there is a "Departure Date", "Status", and "Action" section. The "Status" column shows "Approved" for all entries. The "Action" column contains icons for editing and deleting. The footer of the application reads: "2015-2020 © ASEAN CATCH DOCUMENTATION SCHEMES | Developed by: SEAFDEC Thailand."

FEATURE IN eACDS APP.

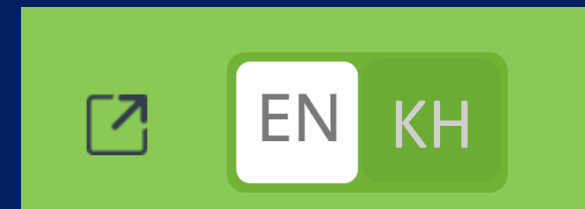


The screenshot shows the eACDS web application interface. The header includes the eACDS SEAFDEC logo and the title "ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES". A sidebar on the left contains navigation options such as Dashboard, Port-out, Catch Report, Port-in, Issuing MD, Issuing SC, Issuing CC, Issuing RC, Report, Tracking, Manage Data, Port, Fishing zone, Fishing Gear, Marine Live, Marine Live Order, Marine Live Family, Dictionary, and Manage Entities. The main content area displays a table with columns for "#", "English Word", "Viet Nam Word", and "Action". The table lists 10 items, each with a corresponding English and Vietnamese term and an edit icon. A "Filter" button is located at the top right of the table. At the bottom of the page, there is a pagination control showing "Items per page: 10" and "91 - 100 of 1020".

#	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	

2

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



FEATURE IN eACDS APP.

The image shows a smartphone screen with the 'eACDS' app interface. The title bar is green and says 'CATCH REPORTING'. Below it is a 'CATCH DETAIL' section with several input fields. A red rectangular box highlights the 'START' and 'END' location and date/time fields. Below the highlighted fields is a 'MARINE LIVES LIST' section with a faint image of a boat and a 'RECORD >' button at the bottom.

Field	Value
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

3

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

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. At the top, there is a green header with a back arrow, the title 'TRANSSHIPMENT', and a menu icon. Below the header is a section titled 'TRANSSHIPMENT DETAIL' with a list icon and an upward arrow. The form contains several input fields: 'SUBS CD NUMBER' with the value 'VNCD0808200002/01', 'TRANSFER DATE' with '08 - 08 - 2020 | 11:50', 'CARRIER VESSEL' with 'Seafdec' and a QR code icon, 'TD NUMBER' with 'VNTD0808200001', 'LATITUDE' with '13.5692156', and 'LONGITUDE' with '100.5734259' and a location pin icon. Below the form is a section for 'MARINE LIVES LIST' with a fish icon and a downward arrow. At the bottom, there are two green buttons: 'RECORD' and 'TRANSFER'. A hand icon is pointing at the 'MARINE LIVES LIST' section.



FEATURE IN eACDS APP.

5

REPORT - Summary Report for Manager

Dashboard | eACDS SEADEC | ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES | EN VN

FILTER | Period: All Specific | Choose Date | Choose Date | Certificate: All

CERTIFICATE CHART

Certificate Ratio

Times

Month in 2020

Legend: CD (Blue), MD (Black), SC (Green), CC (Orange), TD (Purple)

REPORT DETAIL

The result is based on criteria

- Period All
- Certificate All

Summary

- Total Certificate 91
- CD 56
- TD 6
- MD 15
- SC 7
- CC 7

[Export As Excel](#)

Detail

Reference CD Table

Copy CSV PDF Filter

#	CD Number	Vessel Name	Fishing zone	Fishing Gear	Departure Date
1	VNCD300420001	99610	Tonkin Gulf	Purse Seine	30/04/2020 (9:40)

FEATURE IN eACDS APP.

6

Status of Vessel (Online – Offline) on Mapping

The screenshot displays the eACDS SEA/DEC application interface. The top navigation bar is green and contains the eACDS SEA/DEC logo, a menu icon, the text "ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES", and language selection options (EN, VN) along with a globe icon. A sidebar menu on the left lists various functions: Dashboard, Port-out, Catch Report, Port-in, Issuing MD, Issuing SC, Issuing CC, Issuing RC, Report, Tracking, Manage Data, and Manage Entities. The main content area features a map of Southeast Asia and the Indian Ocean region, with a search bar labeled "Search Vessel" in the top right corner. The map shows various countries and seas, including Afghanistan, Pakistan, India, Bangladesh, Myanmar (Burma), Laos, Vietnam, Cambodia, Thailand, Malaysia, Singapore, Indonesia, Philippines, Papua New Guinea, and others. The text "CURRENT DATA ON : Fri Aug 07 2020 09:30:53 GMT+0700 (Indochina Time)" is displayed above the map. The map itself shows vessel status (Online/Offline) and includes a search bar labeled "Search Vessel" in the top right corner.

FEATURE IN eACDS APP.

7

Information and Timeline of Fishing Vessel Activities

eACDS SEAFADEC ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES

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)

Close

OTHER VESSEL

Status	Action
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	
Complete	

Items per page: 10 1 - 10 of 45

FEATURE IN eACDS APP.

8

Vessel Tracking System on eACDS

The screenshot displays the eACDS (Electronic ASEAN Catch Documentation Schemes) Vessel Tracking System interface. The top navigation bar is green and contains the eACDS SEAFDEC logo, a menu icon, and the text "ELECTRONIC ASEAN CATCH DOCUMENTATION SCHEMES". On the right side of the bar, there are language selection options for "EN" and "VN", and a user profile icon.

On the left side, there is a dark sidebar menu with the following items: Dashboard, Port-out, Catch Report, Port-in, Issuing MD, Issuing SC, Issuing CC, Issuing RC, Report, Port-in Port-out, Marine Live, Certificate, **Tracking** (highlighted), Manage Data, and Manage Entities.

The main content area features a map of Samut Prakan, Thailand, showing a vessel tracking path in green. The path starts near the Chao Phraya River and moves through various areas. A search bar at the top of the map area shows "FILTER" and "Period: All Specific 24/07/2020 - 24/07/2020 Vessel: 99448". A search box on the right of the map contains "Search Vessel" and "Show Landmark" (checked). The map includes labels for various locations such as Phra Samut Chedi, Paolo Hospital, Samut Prakan Hospital, Samut Prakan Crocodile Farm and Zoo, Wat Phraeksa, and several villages like SAP BUNCHAI VILLAGE, LUNLY VILLE, THANYAPHON VILLAGE, and BANG PU VILLA VILLAGE. The map also shows roads, rivers, and various landmarks.

MODULE OF IMPLEMENTATION

1

INTRODUCTION

2

BASELINE SURVEY
STATUS ANALYSIS

3

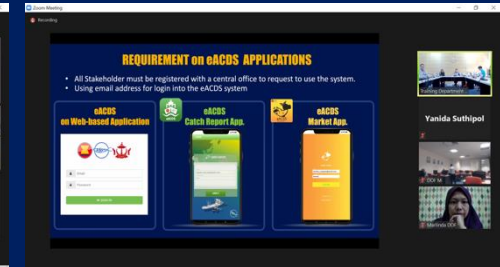
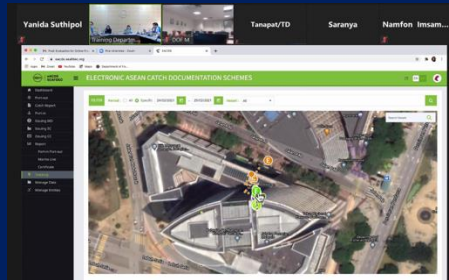
DEVELOP SYSTEM

4

TRAINING AND
TESTING SYSTEM

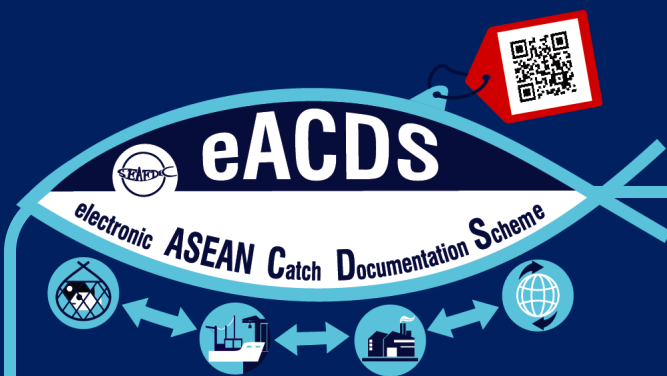
5

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



Mr.Kongpathai Saraphaivanich

Training and Information Section Head, and

Project Leader of Strengthening Regional Cooperation and Enhancing National Capacities to Eliminate IUU Fishing in Southeast Asia

SEAFDEC/TD

kongpathai@seafdec.org

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

