GRUPO TRAGSA

Electronic Bluefin Tuna Catch Documentation System

Flexible allotment

"*Requirements for the TWG Requests 2022. Part II*"

Rev. 1 –September 2022

Document information

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Change log

Date	Revision	Author	Description
20/09/2022	1	María José Fernández Sanjuán	Original version
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CONTENT

The specific requirements are collected from the final cost/time requests and the study of the existing documentation provided until today: the Recommendation currently in force on ICCAT Bluefin tuna Catch Documentation Program (Recommendation 21-08), the draft Recommendation by ICCAT to clarify and amend aspects of ICCAT's Bluefin Tuna Catch Documentation of the eBCD to facilitate the application of the eBCD System (IMM-005B), and reports resulting from the meetings of the eBCD Technical Working Group that, in collaboration with ICCAT Secretariat, are responsible for defining the technical specifications to be met by the system.

These specifications have to be adapted to the modifications made to the current ICCAT Recommendations. It is important to stress that these legal obligations and their adaptation have a direct influence on these specifications and on the development of the system.

The following activities are included in the estimation:

- Analysis and design documents update
- New requirements implementation
- Unit and functional tests
- User manuals update

1. SPECIFIC FUNCTIONAL REQUIREMENTS FOR THE TWG REQUESTS

1.1 REPORT SECTION NO. / REFERENCE Nº 5.5.5: DEVELOPMENT OF FUNCTIONALITY TO ALLOW GROUPING OF FISH FROM THE SAME FLAG ORIGIN/SAME JFO /6.16. PARAGRAPH 197 OF REC. 21-08: CONTROL ACTIVITIES IN FARMS AFTER CAGING / INTRA-FARM TRANSFERS.

1.1.1 Background

As specified in the recommendations 21-08 and 18-13 about the issues, it establishes the following:
Recommendation 21-08, paragraph 197: '*During intra-farm transfers, regrouping fish of the same flag origin and the same JFO, may be authorized by the farm CPC competent authority, providing that traceability, as established in paragraph 5 of Recommendation 18-13, and the applicability of SCRS's growth rates, are maintained*'.

Recommendation 18-13, paragrafh 5: '*Farm CPCs shall ensure that bluefin tuna catches are placed in separate cages or series of cages and partitioned on the basis of flag CPC origin. By derogation, if the bluefin tuna are caught in the context of a joint fishing operation (JFO) between different CPCs, farm CPCs shall ensure that bluefin tuna are placed in separate cages or series of cages and partitioned on the basis of joint fishing operations*'.

1.1.2 Technical specifications and Specific Requirements

As the eBCD system currently works, it is not possible to perform a regrouping in this way, creating a new eBCD code. The main reason is that the cage´s field in the different sections of the eBCD are "free text" type field, not being specifically identified in the system.

In order to be able to plan this development, __it would be necessary first to establish a cage declaration for each farm__. It will be necessary to have a cage registry such as those that currently exist for vessels, traps, farms or companies. It will be necessary to determine which data will have to be registered for each cage in order to identify specifically each of the cages in which the caging or subsequent movements between cages will be carried out.

The information on these cages, as it is something specific to each farm, __would have to be provided together with the rest of the farm information by ICCAT__, so that it is incorporated into the eBCD system through the twice-daily farm synchronization process.

Once this cage register is created, multiple changes would have to be done to the Farming (CG) and Movements between cages (MC) sections. The most obvious one will be that each of these sections will have a destination cage associated with it and in the case of MC also an origin cage that would be uniquely identified.

When this development would be implemented, it could be considered to extend the functionalities of the system with new reports and/or forms to show, for example, which eBCDs are associated with a determinate cage or how many fish are available.

Given the scope of the system configuration, this new functionality would only be available for newly registered eBCDs (it would not be retroactive).

The inclusion of this cage registry would have a strong impact on the eBCD system involving changes in:

- database model
- farm synchronization
- farming section (form, business and printed BCD)
- movement between cages (form, business and printed BCD)
- existing reports involving these sections

After making all these changes, it would be possible to analyse how to group fish from different eBCDs (same flag/JFO origin) in the same cage, but as mentioned above, this is not feasible as the system is currently working. The first phase for this development will have to be the cage-specific identification, in order to be able to start to evaluate the grouping BCDS.

In any case, eBCDs can only be regrouped when they have been recorded with the new developmente updated in the system, and therefore all eBCDs recorded prior to this update cannot be regrouped, so both systems must coexist.

1.1.3   Cost estimation

Profile	Total Hours	Cost	Budget
Consultant	16	52,01 €	832,16 €
Project Manager	48	46,56 €	2.235,02 €
Business Analyst	80	35,83 €	2.866,61 €
Programmer Analyst	480	33,96 €	16.298,78 €
Business Expert	320	31,41 €	10.049,86 €
Reference nº 5.5.5.: Development of functionality to allow grouping of fish from the same flag			**32.282,43 €**

1.2   REPORT SECTION NO. / REFERENCE Nº 6.1.: PARAGRAPH 26 OF REC. 21-08: FARMING CAPACITY.

1.2.1   Background

Objective

As specified in the recommendation 21-08 paragraph 26: '*The ICCAT Secretariat shall compile statistics on the annual amount of caging (input of wild caught fish), harvesting, and export, by farm CPC, using the data in the eBCD system. The eBCD-TWG shall consider the development of such a data extraction functionality, and until such functionality becomes available, each farm CPC shall report these statistics to the ICCAT Secretariat. These statistics shall be made available on the ICCAT website subject to confidentiality requirements*'.

1.2.2   Technical specifications and Specific requirements

For compliance with Paragraph 26 of recommendation 21-08, we propose the implementation of a new report that will be available only for users with an "ICCAT Secretary" profile. This report will compile information on the amount of fish (number and kilos) in cages, harvesting and first trades. The information in this report will be displayed in a disaggregated way grouping the data by year and CPC/Farm Flag, so that confidentiality is maintained in all cases.

This report will be available in the "Reports" section of the eBCD options menu and will only be shown to users with the "ICCAT Secretary" profile. Once this is defined and implemented, the possibility of including it in the asynchronous execution of reports will be evaluated to ensure its correct extraction.

The search parameters will be a period of caging:
- Date from
- Date until

The field to be displayed will be:
- Caging year
- CPC/Flag Farm
- Total No. fish caged
- Total kilos caged
- Total No. fish harvested
- Total kilos harvested
- Total Kg traded (1st trade)

An Excel template would be defined on which the data would be uploaded for downloading and correct visualisation.

Caging year	Farm's flag or Farm's CPC	Total No. fish caged	Total Kilos caged	Total Kilos harvested	Total No. fish harvested	Total Kilos traded (1st Trade)

If necessary, you can also add fields with information on released and lost fish from movements between cages:

- Total No. fish released
- Total No. fish lost

Caging year	Farm's flag or Farm's CPC	Total No. fish caged	Total Kilos caged	Total No. fish released	Total No. fish lost	Total Kilos harvested	Total No. fish harvested	Total Kilos traded (1st Trade)

1.2.3   Cost estimation

Profile	Total Hours	Cost	Budget
Consultant	8	52,01 €	416,08 €
Project Manager	15	46,56 €	698,45 €
Business Analyst	40	35,83 €	1.433,30 €
Programmer Analyst	80	33,96 €	2.716,46 €
Business Expert	60	31,41 €	1.884,35 €
Reference nº 6.1.: Paragraph 26 of Rec. 21-08: Farming capacity			**7.148,64 €**

1.3   REPORT SECTION NO. / REFERENCE Nº 6.5.: PARAGRAPH 102 OF REC. 21-08: ICCAT REGIONAL OBSERVER PROGRAMME (ROP)

1.3.1   Background

As specified in the recommendation 21-08, paragraph 102: '*By way of derogation from paragraph 101, harvesting from farms up to 1000 kg per day and up to a maximum of 50 tons per farm per year to supply the fresh bluefin tuna market may be authorized by the relevant CPC provided that an authorized inspector from the farm CPC is onsite for 100% of such harvests, and controls the entire operation. The authorized inspector shall also validate the harvested quantities in the eBCD system. In this case, the regional observer's signature should not be required in the harvest section of the eBCD. This derogation shall be reviewed, as appropriate, by the PWG, possibly through its IMM Working Group, by 2023 at the latest*'.

1.3.2   Technical specifications and Specific requirements

In order to comply with Paragraph 102 of recommendation 21-08, we propose the modification of the current harvesting section.

Information on whether or not the farm meets the requirements for a priori not needing the signature of the ROP at harvesting (maximum 1,000 kg per day/farm and up to a maximum of 50 t per farm per year), could be provided by ICCAT together with the farm's authorisation data. This information could be recorded in the eBCD during the twice daily entity synchronisation process. For this purpose, a Boolean field (T/F) could be created to indicate

whether during the authorisation period the farm does not require the signature of the ROP for harvestings that meet the requirements of the recommendation.

The user will not know until the moment the harvesting has been registered whether or not it requires the signature of the ROP, as it is necessary that during the recording of the section, the system do the corresponding validations to determine whether or not the section meets the requirements established in paragraph 102 of recommendation 21-08.

In case the maximum amounts set out in this paragraph 102 could vary depending on the CPC, year or any other variable, it is proposed to parameterise these values in database tables in order to simplify the maintenance.

In any case, to control the total harvested farm/year, a new table will be required that establishes for each farm and year, the maximum number of kilos that can be harvested per year to manage without the signing of the ROP. Besides, another field must be included in which the kilos harvested will be counted. It will behave in a similar way to the quotas from vessels, although in this case it will be understood as a constant value, so the possibility that the value may change throughout the authorisation period would not be contemplated.

New fields will be added in the database which will be necessary to indicate whether or not the harvesting is within or out the recommendation, as it will be essential to know in case the section is modified/deleted whether the consumed values have to be modified and which is the reason:

- Maximum kg harvested farm/day
- Maximum kg harvested farm/year

If when recording a new harvesting it is found that the maximum Kg harvested per year has already been exceeded for that farm, no further checks will be carried out and the signature of the ROP will be mandatory requested. Otherwise, it will be necessary to check if the authorized kilos per farm/day have been exceeded, to request or not the ROP signature.

The form in the harvesting section of the eBCD will be modified to indicate whether the harvesting follows this recommendation.

If it is finally agreed to implement this development, we would have to resolve several issues in order to define the final requirements of the functionality, for example:

- Can the signature of the ROP be explicitly requested?

Since making changes to dates or kilograms of recorded harvesting may change whether or not these changes meet the requirements of paragraph 102 of recommendation 28-01 as they may have a direct impact on the values consumed, it would necessary also to know:

- When can changes be made?
- What changes would be authorised and to which profiles?

1.3.3   Cost estimation

Profile	Total Hours	Cost	Budget
Consultant	8	52,01 €	416,08 €
Project Manager	48	46,56 €	2.235,02 €
Business Analyst	80	35,83 €	2.866,61 €
Programmer Analyst	320	33,96 €	10.865,86 €
Business Expert	160	31,41 €	5.024,93 €
1.3 REPORT SECTION NO. / REFERENCE Nº 6.5.: PARAGRAPH 102 OF REC. 21-08: ICCAT REGIONAL OBSERVER PROGRAMME (ROP)			**21.408,49 €**

1.4   REPORT SECTION NO. / REFERENCE Nº 5.4.1: REFERENCE 2019-7: DEVELOP A READ-ONLY PROFILE FOR ICCAT INSPECTORS UNDER JIS

1.4.1   Background

It is proposed to create a new user profile "JIS Inspector ICCAT" which will be incompatible with any other user profile.

1.4.2   Technical specifications and Specific requirements

The management of these users will be the task of users with the "ICCAT Secretary" profile, as they may have permits over different entities from different CPCs/flags, and will be carried out from a new menu option: Registry → JIS ICCAT Inspectors

The "ICCAT Secretary" users shall be allowed to register new ICCAT inspector-type users by indicating the following data [1]:

- Name *
- Surname *

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[1] All mandatory fields are marked with *

- City
- Title
- Job Title
- Language *
- Address
- Postal Code
- Phone
- Fax
- E-mail *

This profile will have a special operation as for each of these inspectors, it will necessary to establishes the entities to which they have access to and the dates on which they have permissions over these entities.

Permits can be given for any existing entity in the eBCD system (vessels, traps, farms) for a limited period. In order to give these permits to the inspector, it is mandatory to provide the following information:

- Entity on which the inspection is going to be carried out *
- Inspection start date *
- Inspection end date *

Upon registration, a username and password will be assigned to the user. The user will receive a new e-mail with its eBCD access credentials. A new email type [eBCD ICCAT] New JIS ICCAT Inspector must be defined.

It will be allowed to assign several entities to be inspected to the same JIS Inspector ICCAT in overlapping periods.
The assignment of several ICCAT JIS inspectors to the same entity in the same period will be allowed.

The user will be able to access the eBCD system with his credentials as long as he has inspection permits on any entity at that time.

It will be necessary for the ICCAT Secretariat to have configured the permissions of these users prior to the inspection to ensure that they can properly access the system and the data they need at the time of the inspection.

Users with this new user profile will be the ICCAT JIS Inspector:

- In the options menu, like all users, a User Registration option will be available with the following choices:
  - User account modification

- o Change password

- • Access to a new menu option will be available in order to enable only to this profile to search for the BCDs associated to the entities over which permits at the time of the search the profile has.
It will be necessary to select the entity to inspect and it would be necessary to decide whether this profile would be able to search any BCD associated to the entity or only those BCDs that are within a given period. The search will return a table with the results of the BCDs the profile has access to.

- • The profile will have access from the search results panel in view mode to the BCDs over which the profile have permits.

- • It will be necessary to adapt the BCDs page and the navigation tree within the BCD, so that users with the new JIS Inspector ICCAT profile can access them in read mode.

1.4.3   Cost estimation

Profile	Total Hours	Cost	Budget
Consultant	8	52,01 €	416,08 €
Project Manager	48	46,56 €	2.235,02 €
Business Analyst	80	35,83 €	2.866,61 €
Programmer Analyst	320	33,96 €	10.865,86 €
Business Expert	160	31,41 €	5.024,93 €
REFERENCE Nº 5.4.1: REFERENCE 2019-7: DEVELOP A READ-ONLY PROFILE FOR ICCAT INSPECTORS UNDER JIS			**21.408,49 €**

1.5   REPORT SECTION NO. / REFERENCE Nº "NEW QUESTION": QUESTION FROM JAPAN ON OBTAINING THE NECESSARY DATA FOR THE CALCULATION OF GROWTH RATES.

1.5.1   Background

It was proposed by Japan the possibility of consulting information from the eBCD system related to farming calculations from other CPCs. In order to be able to do it, they have ask

how this access to farm information (dates, number of fish and weights at both caging and harvesting) can be implemented.

1.5.2   *Technical specifications and Specific requirements*

All the information in these sections is provided by the current Raw Data and Help Traceability reports, but for confidentiality reasons, users can only obtain information from farms under their flag or if they are involved in a trade of bluefin tuna. It is now provided by the farm CPCs on a voluntary basis, but they want to be able to obtain it directly independently from the farm CPC/Flag.
We propose the **implementation of a new report that compiles the disaggregated information on caging and harvesting in a way that guarantees the confidentiality of the data**. This new report could be very similar to the one it was proposed for the issue '*Report section No. / Reference nº 6.1.: Paragraph 26 of Rec. 21-08: Farming capacity*' in this document.

This report would be available for users with "CPC Administrator", "Flag Administrator" and "ICCAT Secretary" profiles in the Reports section of the eBCD options menu. Once defined and implemented, the possibility of including it in the asynchronous execution of reports will be evaluated to ensure that it is obtained correctly.

The search parameters will be a period of caging:

- Date from
- Date until

The fields to be displayed will be:

- Caging year
- Farm´s flag/Farm´s CPC
- Total No fish caged
- Total kilos caged
- Harvesting year
- Total kilos harvested
- Total No fish harvested

An Excel template would be defined in which the data would be uploaded for downloading and correct displayed:

Farm's flag or Farm's CPC	Caging year	Total No. fish caged	Total Kilos caged	Harvesting year	Total Kilos harvested	Total No. fish harvested

1.5.3 Cost estimation

Profile	Total Hours	Cost	Budget
Consultant	8	52,01 €	416,08 €
Project Manager	15	46,56 €	698,45 €
Business Analyst	40	35,83 €	1.433,30 €
Programmer Analyst	80	33,96 €	2.716,46 €
Business Expert	60	31,41 €	1.884,35 €
REFERENCE Nº "NEW QUESTION": QUESTION FROM JAPAN ON OBTAINING THE NECESSARY DATA FOR THE CALCULATION OF GROWTH RATES.			**7.148,64 €**

2. TOTAL COST

The total cost of the proposal exposed above can be seen in the following sumarize table:

Profile	Total Hours	Cost	Budget
Consultant	48	52,01 €	2.496,47 €
Project Manager	174	46,56 €	8.101,96 €
Business Analyst	320	35,83 €	11.466,43 €
Programmer Analyst	1280	33,96 €	43.463,42 €
Business Expert	760	31,41 €	23.868,41 €
TOTAL COST			**89.396,70 €**