



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Fact sheet

ELOG – Logbook – Tunas and Swordfish

All DFO Regions

(FS-NAT-226-5-EN)

February 1, 2024

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1. Introduction

The fact sheet details the functional rules that client logbook applications must follow based on a specific version of a form. The fact sheet may also set out instructions that aim to specify the nature of some elements of the logbook.

The business rules contained in this fact sheet apply to the client applications developed to enable the entry of the electronic logbook information identified in Section 2.

Rules in this fact sheet complement those established in the form¹. Data elements that must contain a value in the XML file for all sub-forms are identified using a “Y” in column “REQUIRED?” of the form¹ (see Standard for the development of electronic logbook client applications, section 3.4 for more details on the forms).

A sub-form is a subset of the main form elements. Sub-forms have been developed based on paper logbooks. Fish harvesters will have to select the sub-form. This will allow the client application to limit the list of information requested by DFO depending on the selected sub-form.

Observance of the rules set out in this document and in the form¹ will be verified during the client application qualification process (see Client application qualification program – v6.6 – January 2017 for details). All rules identified by a rule number must be implemented in the ELOG client application. If the rule is not respected by the user, the ELOG client application must display an error and allow the client to correct the error.

2. Applicable form type and form version

Form type	Form version identifier
ELOG - Logbook – Tunas and Swordfish	226

3. Fact sheet validity date

Version	Valid since	Expiry date
226.1	2021-06-10	2021-12-08
226.2	2021-12-09	2022-01-31
226.3	2022-02-01	2022-03-22
226.4	2022-03-23	2024-01-31
226.5	2024-02-01	

¹ See document 39796.226.NATIONAL - ELOG - Logbook – Tunas and Swordfish - JBE - Journal de bord – Thons et Espadon.csv

4. Change history

Version	Date	Description of change
226.1	2021-06-10	Creation of version 226.1 (draft)
226.2	2021-12-09	<ul style="list-style-type: none"> - Integration of the subforms concept - Removal of nodes SALES and SALES_DTL - Removal of section “Clients” - Removal of Appendix A - Revision of some rules based the comments received
226.3	2022-02-01	<ul style="list-style-type: none"> - Addition of rule #931 (FIN label) - Addition of by-catch species in rule #757: <ul style="list-style-type: none"> 18398 Redfishes 1325 Plaice, American 1373 Flounder, Witch 1308 Hake, Silver 1301 Grenadiers 13324 Barracudina, White
226.4	2022-03-23	<p>Modifications following the revision by regions</p> <ul style="list-style-type: none"> - Removal of Fishery Management Areas in sub-form #22 (Albacore Tuna) - Modification of Bluefin Tunas naming (Atlantic and Pacific) - Translated some shark names to French - Added regions QBC, GLF and NFLD in Appendix D, sub-form #21 - Added MPO-NFLD and Labrador to rules #27 and 93 - Replaced gear #947 (Electrical Harpoon) by #943 (Harpoon and spear) in appendix C, sub-form #21 (Swordfish) - Added fishing methods kite and greenstick - Added fishing gear “Buoy gear” in Appendix C for sub-form #21 (Swordfish) - Replaced rule #802 by rules #802a, 802b and 802c - Added targeted species Albacore, Bigeye, Skipjack and Yellowfin to sub-form « Bluefin Tuna » (Appendix A)
226.5	2024-02-01	<ul style="list-style-type: none"> - Correction of Code_id and Description for Tuna, Atlantic Bluefin and Tuna, Pacific, Bluefin in: <ul style="list-style-type: none"> o Rule 802a & 802c o Rule 811 o Rule 757 o Appendix A - Modification of Rule #706 - Modification of Rule #801

5. General rules

The general rules identified in this section must be followed by all ELOG client applications which allow the production of logbooks whose type and version are identified in point 2 (ELOG - Logbook – Tunas and Swordfish, version 226).

5.1 Data transmission

All logbook data must be forwarded to Fisheries and Oceans Canada within 72 hours of each fishing trip. The license conditions give more details.

5.2 Functional rules

The functional rules in this section are intended to identify the rules that must be met by the ELOG client application for all Tunas and Swordfish fleets.

5.2.1 Closure of data groups

The ELOG client application must allow the individual closure of the each occurrence of the following data groups if the data group is used:

Rule No.	Data group
1506	HLIN
1507	HLOUT
1503	SAR
1505	PCONS
1512	BAIT_USED
1518	BAIT_FSHD
1500	EFFORT
1508	LANDING

5.2.2 Minimal composition of data groups

The data groups included in the XML file must comply with the following rules:

General rules – Minimal composition of data groups		
Rule No.	Data group	Rule
1000	Elog	- Must contain at least one occurrence of the node General_info - Must contain at least one occurrence of the node Trip
1007	Hlin	If this data group is used: - Must contain at least one occurrence of the node Hlin
1009	Hlout	If this data group is used: - Must contain at least one occurrence of the node Hlout
1002	Sar	If this data group is used: - Must contain at least one occurrence of the node Sar
1004	Pcons	If this data group is used: - Must contain at least one occurrence of the node Pcons
1022	Bait_used	If this data group is used:

General rules – Minimal composition of data groups		
Rule No.	Data group	Rule
		- Must contain at least one occurrence of the node Bait_used
1030	Bait_fshd	If this data group is used: - Must contain at least one occurrence of the node Bait_fshd
1001	Effort	If this data group is used: - Must contain at least one occurrence of the node Effort - Must contain at least one occurrence of the node Tgt_species - Must contain at least one occurrence of the node Effort_by_gear - Must contain at least one occurrence of the node Effort_Detail - Must contain at least one occurrence of the node Catch
1003	Landing	If this data group is used: - Must contain at least one occurrence of the node Landing
1018	(All data groups)	If a data group is not required by DFO or not used by the harvester, it should not appear un the XML file.

5.2.3 Restrictions on data groups

General rules – Restrictions on data groups		
Rule No.	Data group	Rule
2020	EFFORT (nodes EFFORT_DETAIL, TGT_SPECIES and CATCH)	In each occurrence of node EFFORT_DETAIL, there must be at least one occurrence of the Catch node for which the species caught (Catch.specie_id) is equal to the target species (Tgt_species.specie_id), even if there was no catch. When there is no catch during the fishing effort, the fisher must enter 0 in the quantity kept (Catch.Kept_wt) or in in the average weight of fishes kept (Catch.Avg_wt_spcmn_kept).
2010	EFFORT (nodes EFFORT and TGT_SPECIES)	Only one occurrence of the node Tgt_species is allowed in an occurrence of the node EFFORT.
2032	EFFORT_DETAIL CATCH	If the DFO administrative region is Pacific (General_info.Reg_id=1010), then each occurrence of node EFFORT_DETAIL must contain a sub node CATCH containing the declaration of the number of sea birds caught during the period of time between the start and the end of the effort (Effort_detail.Start_dt and Effort_detail.End_dt) In this CATCH node, the value of Catch.Specie_id will be equal to 14183 (Birds) and the value of Catch.Nb_spcmn_disc will be greater than or equal to 0.

General rules – Restrictions on data groups		
2033	EFFORT (CATCH)	<p>Each catch reported (All CATCH nodes) must have at least one quantity caught (kept or discard) having a value greater than or equal to 0, so:</p> <p>Catch.Kept_wt >= 0 or Catch.Nb_spcmn_kept >= 0 or Catch.Disc_wt >= 0 or Catch.Nb_spcmn_disc >= 0 or Catch.Avg_wt_spcmn_kept >=0 or Catch.Avg_wt_spcmn_disc >=0</p>
2011	LANDING	<p>There must be at least one occurrence of the data group LANDING for each fishing trip/logbook.</p> <p>Note: This does not mean that each XML file must contain a node Landing. This means that, in all XML files composing an electronic logbook, there should be at least one that contains the LANDING data group.</p>

5.2.4 Additional rules concerning the data groups

General rules – Additional rules concerning data groups		
Rule No.	Data group	Rule
1050	EFFORT	<p>The client application <u>must not limit</u> the number of occurrences of the data group EFFORT that can be captured by the user **.</p> <p>**In some situations, more than one licence of a same type may be used during a fishing trip. If this happens, the fisher may be asked to declare the catches and efforts, licence by licence, in separated EFFORT data groups in the same logbook.</p>

5.2.5 Restrictions on data elements

Note: The following restrictions apply only if the node identified in the “Node(s)” column is used.

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
608	All nodes	All elements	<p>A sub-form (General_info.Subform_id) will have to be selected by the fish harvester.</p> <p>Document named “Subforms_requirements_226.xlsx” list the requirements (Mandatory/Optional/Blocked) for all the elements of the form per sub-forms.</p> <p>These requirements must be considered as integral part of this fact sheet, so, must be taken in account during the development of the client application and applied if the sub-form is selected by the fisher.</p> <p>The requirement “Blocked” identified in this document have the priority over all the other rules listed in this fact sheet.</p> <p>Blocked elements identified in this document will never be “unblocked” by other rules. Validations that refers to a blocked element are not applicable.</p> <p>Requirements about elements identified as “Optional” may be modified by other rules under certain conditions identified in rules.</p> <p>If all the elements composing a data group of a sub-form are marked as “Blocked”, then the data group must be blocked for the sub-form.</p>

General rules – restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
789	SAR	NB_SPCMN WT	In the client application, these elements must have an initial value equal to “null” (empty). If the user wants to declare a quantity (0 or greater than 0) using this element, then the value must be entered manually by the user. A null or empty value must not be interpreted as a 0 by the client application.								
	BAIT_FSHD	KEPT_WT									
	BAIT_USED	BT_ONBOARDED_WT									
	PCONS	NB_SPCMN WT									
	CATCH	NB_SPCMN_KEPT NB_SPCMN_DISC KEPT_WT DISC_WT AVG_WT_SPCMN_KEPT AVG_WT_SPCMN_DISC									
602	EFFORT	SAR_IND MM_INTER_IND LOST_GEAR_IND	In the client application, these elements must have an initial value equal to “null” (empty). The value must be entered manually by the user. A null or empty value must not be interpreted as a ‘Yes’ or ‘No’ by the client application.								
	EFFORT_DETAIL	PLN_USD_IND									
1	GENERAL_INFO	FORM_VER_ID	Only this value must be available and considered valid: <table><tr><th><u>Form_version_id</u></th><th><u>Description</u></th></tr><tr><td>226</td><td>ELOG - Logbook - Tunas and Swordfish</td></tr></table> Ref table : Mv_form_version	<u>Form_version_id</u>	<u>Description</u>	226	ELOG - Logbook - Tunas and Swordfish				
<u>Form_version_id</u>	<u>Description</u>										
226	ELOG - Logbook - Tunas and Swordfish										
609	GENERAL_INFO	SUBFORM_ID	Only these values must be available and considered valid: <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>20</td><td>NAT - Bluefin Tuna</td></tr><tr><td>21</td><td>NAT - Swordfish</td></tr><tr><td>22</td><td>PAC - Albacore Tuna (Pacific only)</td></tr></table> Ref table : Mv_subforms	<u>Subform_id</u>	<u>Description</u>	20	NAT - Bluefin Tuna	21	NAT - Swordfish	22	PAC - Albacore Tuna (Pacific only)
<u>Subform_id</u>	<u>Description</u>										
20	NAT - Bluefin Tuna										
21	NAT - Swordfish										
22	PAC - Albacore Tuna (Pacific only)										

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
927	GENERAL_INFO	SUBFORM_ID REG_ID	Only these administrative regions (General_info.Reg_id) must be available and considered valid for the sub-form: (see <u>Appendix D – List of valid Administrative regions per sub-form</u>) Ref table : Mv_subforms, Mv_dfo_region
931	GENERAL_INFO	FIN (label)	In the client application, all labels associated to element General_info.Fin must always be: In French: « NIP du <u>détenteur de permis</u> » In English: « <u>Licence holder's</u> FIN »
260	GENERAL_INFO	FIN	The Fisher Identification Number (General_info.Fin) must be made up of either : - Nine digits (e.g.: 999999999) or - One digit then one uppercase letter then seven digits (e.g.: 9D9999999). The letter must be C or D. or - Five digits (e.g.: 99999) or - Six digits (e.g.: 999999) or - “6ASU” followed by up to 5 digits (e.g.: 6ASU12345) or - “DFOCC” followed by up to 9 digits (e.g.: DFOCC123456789).
265	TRIP	START_DT	The trip start date and time (Trip.Start_dt) (UTC) cannot be later than the current UTC date and time plus 6 hours.
48	TRIP	TRIP_NUM	A new trip number (Trip.Trip_num) must be allocated automatically and sequentially for each new fishing trip.
181	TRIP	LGBK_UID	The logbook unique identifier must be made up of six uppercase letters (A-Z) randomly generated. If possible, make sure the logbook unique identifier has never been used before by any of your clients.
11	SAR	SAR_DT	The date and time of the interaction with a species at risk (Sar.Sar_dt) must be later than or equal to the trip start date (Trip.Start_dt).
	TRIP	START_DT	

General rules – restrictions on data elements																																											
Rule No.	Node(s)	Element(s)	Rule																																								
12	SAR	SAR_DT	The date and time of the interaction with a species at risk (Sar.Sar_dt) must be before or equal to the current date and time (UTC), at the time of entry.																																								
7	SAR	SPECIE_ID	<p>Only these values must be available and considered valid:</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1363</td><td>Bass, Striped</td></tr><tr><td>14009</td><td>Shark, White</td></tr><tr><td>10561</td><td>Turtle, Leatherback Sea</td></tr><tr><td>4561</td><td>Turtle, Loggerhead Sea</td></tr><tr><td>1375</td><td>Wolffish, Northern</td></tr><tr><td>1382</td><td>Wolffish, Spotted</td></tr></table> <p>Ref table: Mv_sar_list</p>	<u>Code_id</u>	<u>Description</u>	1363	Bass, Striped	14009	Shark, White	10561	Turtle, Leatherback Sea	4561	Turtle, Loggerhead Sea	1375	Wolffish, Northern	1382	Wolffish, Spotted																										
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27	HLIN	HLIN_CIE_ID	<p>Only these values must be available and considered valid:</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>11682</td><td>Resmar</td></tr><tr><td>11683</td><td>Seaweigh</td></tr><tr><td>11685</td><td>Kémer 2000</td></tr><tr><td>25095</td><td>Atlantic Catch Data Ltd.</td></tr><tr><td>25097</td><td>Baywatch Dockside Monitoring</td></tr><tr><td>25096</td><td>Barrington Catch Monitoring Centre Association</td></tr><tr><td>25098</td><td>Chéticamp Monitoring Association</td></tr><tr><td>25105</td><td>Island Weigh 95 Inc.</td></tr><tr><td>25107</td><td>Pèse-Pêche Inc.</td></tr><tr><td>38498</td><td>Sea Tracker Dockside Monitoring</td></tr><tr><td>25101</td><td>Fish Harvesters' Resources Centres</td></tr><tr><td>39494</td><td>Ocean Catch Monitoring Inc.</td></tr><tr><td>25094</td><td>Archipelago Marine Research Ltd.</td></tr><tr><td>25099</td><td>D&D Pacific Fisheries Limited</td></tr><tr><td>25106</td><td>JO Thomas & Associates Ltd.</td></tr><tr><td>38495</td><td>M. C. Wright and Associated Ltd</td></tr><tr><td>39493</td><td>Ecotrust Canada</td></tr><tr><td>39551</td><td>Pacific Coast Fishery Services Inc.</td></tr><tr><td>38485</td><td>Department of Fisheries and Oceans-Newfoundland and Labrador Region</td></tr></table> <p>Ref table: Mv_service_provider</p>	<u>Code_id</u>	<u>Description</u>	11682	Resmar	11683	Seaweigh	11685	Kémer 2000	25095	Atlantic Catch Data Ltd.	25097	Baywatch Dockside Monitoring	25096	Barrington Catch Monitoring Centre Association	25098	Chéticamp Monitoring Association	25105	Island Weigh 95 Inc.	25107	Pèse-Pêche Inc.	38498	Sea Tracker Dockside Monitoring	25101	Fish Harvesters' Resources Centres	39494	Ocean Catch Monitoring Inc.	25094	Archipelago Marine Research Ltd.	25099	D&D Pacific Fisheries Limited	25106	JO Thomas & Associates Ltd.	38495	M. C. Wright and Associated Ltd	39493	Ecotrust Canada	39551	Pacific Coast Fishery Services Inc.	38485	Department of Fisheries and Oceans-Newfoundland and Labrador Region
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Rule No.	Node(s)	Element(s)	Rule																								
93	HLOUT	HLOUT_CIE_ID	<p>Only these values must be available and considered valid:</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>25110</td><td>Department of Fisheries and Oceans-Maritimes Region</td></tr><tr><td>25095</td><td>Atlantic Catch Data Ltd.</td></tr><tr><td>25096</td><td>Barrington Catch Monitoring Centre Association</td></tr><tr><td>25097</td><td>Baywatch Dockside Monitoring</td></tr><tr><td>25094</td><td>Archipelago Marine Research Ltd.</td></tr><tr><td>25099</td><td>D&D Pacific Fisheries Limited</td></tr><tr><td>25106</td><td>JO Thomas & Associates Ltd.</td></tr><tr><td>38495</td><td>M. C. Wright and Associated Ltd</td></tr><tr><td>39493</td><td>Ecotrust Canada</td></tr><tr><td>39551</td><td>Pacific Coast Fishery Services Inc.</td></tr><tr><td>38485</td><td>Department of Fisheries and Oceans-Newfoundland and Labrador Region</td></tr></tbody></table> <p>Ref table: Mv_Service_provider</p>	<u>Code_id</u>	<u>Description</u>	25110	Department of Fisheries and Oceans-Maritimes Region	25095	Atlantic Catch Data Ltd.	25096	Barrington Catch Monitoring Centre Association	25097	Baywatch Dockside Monitoring	25094	Archipelago Marine Research Ltd.	25099	D&D Pacific Fisheries Limited	25106	JO Thomas & Associates Ltd.	38495	M. C. Wright and Associated Ltd	39493	Ecotrust Canada	39551	Pacific Coast Fishery Services Inc.	38485	Department of Fisheries and Oceans-Newfoundland and Labrador Region
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663	HLOUT	HLOUT_CIE_ID	<p>The French description corresponding to code 25110 of table Mv_service_provider shall be replaced by “MPO Maritimes - Système interactif de reconnaissance vocale (IRV)”</p> <p>The English description corresponding to code 25110 of table Mv_service_provider shall be replaced by « DFO Maritimes – Interactive Voice Recognition (IVR) system”</p> <p>Ref table: Mv Service provider</p>																								

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Rule No.	Node(s)	Element(s)	Rule																																						
791	BAIT_FSHD	SPECIE_ID	<p>Only these values must be available and considered valid:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>1266</td><td>Alewife</td></tr><tr><td>1921</td><td>Cunner</td></tr><tr><td>18554</td><td>Dogfishes unspecified</td></tr><tr><td>1299</td><td>Flatfishes, not specified</td></tr><tr><td>1298</td><td>Flounder, Winter</td></tr><tr><td>1385</td><td>Flounder, Yellowtail</td></tr><tr><td>4311</td><td>Groundfish, Unspecified</td></tr><tr><td>16356</td><td>Hakes</td></tr><tr><td>3392</td><td>Herring, Atlantic</td></tr><tr><td>1315</td><td>Mackerel, Atlantic</td></tr><tr><td>17087</td><td>Octopus (OCTOPUS)</td></tr><tr><td>18398</td><td>Redfishes</td></tr><tr><td>18287</td><td>Salmons</td></tr><tr><td>1961</td><td>Sculpin, Shorthorn</td></tr><tr><td>16349</td><td>Silverside, Atlantic</td></tr><tr><td>17375</td><td>Smelt</td></tr><tr><td>1359</td><td>Squid, Illex</td></tr><tr><td>814</td><td>Other</td></tr></table> <p>Ref table: Mv_species</p>	Code_id	Description	1266	Alewife	1921	Cunner	18554	Dogfishes unspecified	1299	Flatfishes, not specified	1298	Flounder, Winter	1385	Flounder, Yellowtail	4311	Groundfish, Unspecified	16356	Hakes	3392	Herring, Atlantic	1315	Mackerel, Atlantic	17087	Octopus (OCTOPUS)	18398	Redfishes	18287	Salmons	1961	Sculpin, Shorthorn	16349	Silverside, Atlantic	17375	Smelt	1359	Squid, Illex	814	Other
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1359	Squid, Illex																																								
814	Other																																								
792	BAIT_FSHD	SPECIE_ID	<p>If the species is “Other” (Bait_fshd.Specie_id=814), then replace the English description displayed “Other” by “Other (Identify the species in the comment area)”</p> <p>Ref table: Mv_species</p>																																						
793	BAIT_FSHD	SPECIE_ID	<p>If the species is “Other” (Bait_fshd.Specie_id=814), then replace the French description displayed “Autres” by “Autres (Identifier l’espèce dans la zone commentaire)”</p> <p>Ref table: Mv_species</p>																																						
794	BAIT_FSHD	SPECIE_ID REM	<p>If the species is “Other” (Bait_fshd.Specie_id=814), then the capture of a comment (Catch.Rem) is mandatory.</p> <p>Ref table: Mv_species</p>																																						

General rules – restrictions on data elements																	
Rule No.	Node(s)	Element(s)	Rule														
796	BAIT_FSHD	SPECIE_FRM_ID	Only these values must be available and considered valid: <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>4691</td><td>Round</td></tr></table> Ref table: Mv_species_product_form	Code_id	Description	4691	Round										
Code_id	Description																
4691	Round																
706	PCONS	SPECIE_ID	When declaring personal consumption, only the species that were caught (Catch.Specie_id) and have an average weight of individuals kept on board or number of specimens kept is greater than 0 (Catch.Avg_wt_spcmn_kept > 0 or Catch.Nb_spcmn_kept > 0) in this logbook must be available and considered valid. Ref table : Mv_species														
	CATCH	SPECIE_ID AVG_WT_SPCMN_KEPT NB_SPCMN_KEPT															
153	PCONS	SPECIE_FRM_ID	Only these values must be available and considered valid: <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>4691</td><td>Round</td></tr><tr><td>4196</td><td>Gutted, tail off</td></tr><tr><td>4198</td><td>Gutted, head off, tail off</td></tr><tr><td>4663</td><td>Gutted Head Off</td></tr><tr><td>4187</td><td>Gutted</td></tr><tr><td>39620</td><td>Other</td></tr></table> Ref table: Mv_species_product_form	Code_id	Description	4691	Round	4196	Gutted, tail off	4198	Gutted, head off, tail off	4663	Gutted Head Off	4187	Gutted	39620	Other
Code_id	Description																
4691	Round																
4196	Gutted, tail off																
4198	Gutted, head off, tail off																
4663	Gutted Head Off																
4187	Gutted																
39620	Other																
30	EFFORT	START_DT	The effort start date and time (Effort.Start_dt) must be equal to or before the current date and time (UTC), at the time of entry.														
32	EFFORT	START_DT END_DT	The effort end date and time (Effort.End_dt) must be later than or equal to the effort start date and time (Effort.Start_dt).														
	GENERAL INFO	SUBFORM ID															

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
920	TGT_SPECIES	SPECIE_ID	<p>Only these targeted species (Tgt_species.Specie_id) must be available and considered valid for the sub-form:</p> <p>(see Appendix A – List of valid targeted species per sub-form)</p> <p>Ref table: Mv_subforms, Mv_species</p>
921	GENERAL_INFO	SUBFORM_ID	<p>Only these fishing areas (Effort.Fma_id) must be available and considered valid for the sub-form:</p> <p>(see Appendix B – List of valid fishing areas per sub-form)</p> <p>Ref table: Mv_Fma, Mv_subforms</p>
	EFFORT	FMA_ID	
603	EFFORT	SAR_IND	<p>The label of this element must be:</p> <p><u>French:</u> Y a-t-il eu interaction avec une espèce en péril durant cet effort de pêche?</p> <p><u>English:</u> Was there any interaction with a species at risk during this fishing effort?</p>
604	EFFORT	SAR_IND	<p>When the answer is 'Yes' (Effort.Sar_ind='Y'), then the following message must be displayed:</p> <p><u>French:</u> Veuillez compléter la section concernant les interactions avec une espèce en péril.</p> <p><u>English:</u> Please, complete the section concerning species at risk interactions.</p>

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
780	EFFORT	MM_INTER_IND	<p>The label of this element must be:</p> <p><u>French:</u> Y a-t-il eu interaction avec un mammifère marin durant cet effort de pêche?</p> <p><u>English:</u> Was there any interaction with a marine mammal during this fishing effort?</p> <p>Ref table: Mv_response</p>
781	EFFORT	MM_INTER_IND	<p>When the answer is ‘Yes’ (Effort.Mm_inter_ind=‘Y’), then the following message must be displayed:</p> <p><u>French:</u> Veuillez compléter la déclaration d’interaction avec un mammifère marin.</p> <p><u>English:</u> Please, complete the declaration of interaction with a marine mammal.</p> <p>Ref table: Mv_response</p>
606	EFFORT	LOST_GEAR_IND	<p>The label of this element must be:</p> <p><u>French:</u> Avez-vous perdu ou retrouvé un de vos engins de pêche durant cet effort de pêche?</p> <p><u>English:</u> Did you lose or find any of your fishing gear during this fishing effort?</p>

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
607	EFFORT	LOST_GEAR_IND	<p>When the answer is ‘Yes’ (Effort.Lost_gear_ind=‘Y’), then the following message must be displayed:</p> <p><u>French:</u> Veuillez compléter la déclaration concernant les engins de pêche perdus ou retrouvés</p> <p><u>English:</u> Please, complete the declaration concerning gears that were lost or found.</p> <p>Ref table: Mv_response</p>
922	EFFORT_BY_GEAR	GEAR_ID	<p>Only these fishing gears (Effort_by_gear.Gear_id) must be available and considered valid for the sub-form:</p> <p>(see <u>Appendix C – List of valid fishing gears per sub-form</u>)</p> <p>Ref table: Mv_gear_description, Mv_subforms</p>
	GENERAL_INFO	SUBFORM_ID	
797	EFFORT_DETAIL	TOW_NUM	The tow (set) number (Effort_detail.Tow_num) must be generated sequentially by the client application and start from 1. Reset to 1 at each new logbook. The tow number must not be updatable by the user.
734	EFFORT_DETAIL	START_DT	The date and time (Effort_detail.Start_dt) must be between the effort start date/time (Effort.Start_dt) and the effort end date/time (Effort.End_dt) inclusively.
	EFFORT	START_DT END_DT	
741	EFFORT_DETAIL	END_DT	The end date and time (Effort_detail.End_dt) must be between the effort start date/time (Effort.Start_dt) and the effort end date/time (Effort.End_dt) inclusively.
	EFFORT	START_DT END_DT	
742	EFFORT_DETAIL	END_DT	The end date and time (Effort_detail.End_dt) must be before or equal to the current date and time (UTC), at the time of entry.
743	EFFORT_DETAIL	START_DT END_DT	The effort end date and time (Effort_detail.End_dt) must be later than or equal to the effort start date and time (Effort_detail.Start_dt).

General rules – restrictions on data elements																																															
Rule No.	Node(s)	Element(s)	Rule																																												
798	EFFORT_DETAIL	BT_TYP_ID	<p>Only the following type of bait (Effort_detail.Bt_typ_id) must be available and considered valid:</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>1266</td><td>Alewife</td></tr><tr><td>1921</td><td>Cunner</td></tr><tr><td>18554</td><td>Dogfishes unspecified</td></tr><tr><td>1299</td><td>Flatfishes, not specified</td></tr><tr><td>1298</td><td>Flounder, Winter</td></tr><tr><td>1385</td><td>Flounder, Yellowtail</td></tr><tr><td>4311</td><td>Groundfish, Unspecified</td></tr><tr><td>16356</td><td>Hakes</td></tr><tr><td>3392</td><td>Herring, Atlantic</td></tr><tr><td>1315</td><td>Mackerel, Atlantic</td></tr><tr><td>17087</td><td>Octopus (OCTOPUS)</td></tr><tr><td>18398</td><td>Redfishes</td></tr><tr><td>18287</td><td>Salmons</td></tr><tr><td>1961</td><td>Sculpin, Shorthorn</td></tr><tr><td>16349</td><td>Silverside, Atlantic</td></tr><tr><td>17375</td><td>Smelt</td></tr><tr><td>1359</td><td>Squid, Illex</td></tr><tr><td>39776</td><td>Experimental bait</td></tr><tr><td>39777</td><td>Electronic bait</td></tr><tr><td>39795</td><td>Synthetic bait</td></tr><tr><td>38506</td><td>Missing in the list</td></tr></tbody></table> <p>Ref table: Mv_Bait_Type</p>	<u>Code_id</u>	<u>Description</u>	1266	Alewife	1921	Cunner	18554	Dogfishes unspecified	1299	Flatfishes, not specified	1298	Flounder, Winter	1385	Flounder, Yellowtail	4311	Groundfish, Unspecified	16356	Hakes	3392	Herring, Atlantic	1315	Mackerel, Atlantic	17087	Octopus (OCTOPUS)	18398	Redfishes	18287	Salmons	1961	Sculpin, Shorthorn	16349	Silverside, Atlantic	17375	Smelt	1359	Squid, Illex	39776	Experimental bait	39777	Electronic bait	39795	Synthetic bait	38506	Missing in the list
<u>Code_id</u>	<u>Description</u>																																														
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39777	Electronic bait																																														
39795	Synthetic bait																																														
38506	Missing in the list																																														
800	EFFORT_DETAIL	FSH_METH_ID	<p>Only the following fishing methods (Effort_detail.Fsh_meth_id) must be available and considered valid:</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>921</td><td>Rod and reel (chumming)</td></tr><tr><td>923</td><td>Rod and reel (trolling)</td></tr><tr><td>43816</td><td>Kite fishing</td></tr><tr><td>43817</td><td>Greenstick</td></tr></tbody></table> <p>Ref table: Mv_fishing_method</p>	<u>Code_id</u>	<u>Description</u>	921	Rod and reel (chumming)	923	Rod and reel (trolling)	43816	Kite fishing	43817	Greenstick																																		
<u>Code_id</u>	<u>Description</u>																																														
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923	Rod and reel (trolling)																																														
43816	Kite fishing																																														
43817	Greenstick																																														
757	CATCH	SPECIE_ID	<p>Only the following species (Catch.Specie_id) must be available and considered valid:</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>1107</td><td>Tuna, Albacore</td></tr><tr><td>1272</td><td>Tuna, Bigeye</td></tr></tbody></table>	<u>Code_id</u>	<u>Description</u>	1107	Tuna, Albacore	1272	Tuna, Bigeye																																						
<u>Code_id</u>	<u>Description</u>																																														
1107	Tuna, Albacore																																														
1272	Tuna, Bigeye																																														

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
			<p>19055 Tuna, Atlantic Bluefin</p> <p>1273 Tuna, Pacific Bluefin</p> <p>1354 Tuna, Skipjack</p> <p>1386 Tuna, Yellowfin</p> <p>18302 Bonito, Pacific</p> <p>18425 Yellowtail</p> <p>10595 Shark, Tiger</p> <p>1293 Spiny Dogfish</p> <p>13276 Shark, Thresher</p> <p>1337 Shark, Blue</p> <p>1348 Mako, Shortfin</p> <p>1349 Shark, Hammerhead</p> <p>1352 Shark, unspecified</p> <p>1358 Shark, Porbeagle</p> <p>13607 Shark, Brown Cat</p> <p>14124 Sharks, Basking</p> <p>15217 Shark, Soupfin</p> <p>16080 Shark, Salmon</p> <p>17012 Shark, Sevengill</p> <p>18517 Shark, Pacific Sleeper</p> <p>3384 Shark, Sixgill</p> <p>38404 Tope</p> <p>1366 Swordfish</p> <p>1276 Marlin, Atlantic Blue</p> <p>16802 Marlin, Pacific Blue</p> <p>1945 Marlin, White</p> <p>13639 Wahoo</p> <p>1943 Dolphinfin, Common</p> <p>1977 Trout, Rainbow</p> <p>14183 Birds</p> <p>814 Other</p> <p>3651 Salmon, Chinook</p> <p>3655 Salmon, Coho</p> <p>3653 Salmon, Chum</p> <p>3659 Salmon, Sockeye</p> <p>3657 Salmon, Pink</p> <p>18398 Redfishes</p> <p>1325 Plaice, American</p> <p>1373 Flounder, Witch</p> <p>1308 Hake, Silver</p> <p>1301 Grenadiers</p> <p>13324 Barracudina, White</p> <p>Ref table: Mv_species</p>

General rules – restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
40	CATCH	SPECIE_FRM_ID	<p>Only the following values must be available and considered valid:</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>4691</td><td>Round</td></tr></table> <p>Ref table: Mv_species_product_form</p>	<u>Code_id</u>	<u>Description</u>	4691	Round						
<u>Code_id</u>	<u>Description</u>												
4691	Round												
801	CATCH	KEPT_WT DISC_WT AVG_WT_SPCMN_KEPT AVG_WT_SPCMN_DISC	<p>In each occurrence of the Catch node, if any of these elements contain a value greater than or equal to 0, then the capture of the species product form (Catch.Specie_frm_id) is mandatory. Otherwise, the capture of the species product form (Catch.Specie_frm_id) must be blocked.</p> <p>Ref table: Mv_species_product_form</p>										
		SPECIE_FRM_ID											
802a	GENERAL_INFO	SUBFORM_ID	<p>When the sub-form selected (General_info.Subform_id) is one of</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>20</td><td>NAT – Bluefin Tuna</td></tr><tr><td>21</td><td>NAT - Swordfish</td></tr></table> <p>if the species caught (Catch.Specie_id) is one of :</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>19055</td><td>Tuna, Atlantic Bluefin</td></tr></table> <p>and the kept weight (Catch.Kept_wt) is greater than 0, then the capture of the following elements is mandatory:</p> <ul style="list-style-type: none">- Tuna tag number (Catch.Spcmn_tag_num)- “Dressed” weight estimate of fish kept(Catch.Kept_wt2)- Species product form (Catch.Specie_frm2_id)- Dressed length (Catch.Drs_len)- Flank length (Catch.Flnk_len) <p>Ref table: Mv_species, Mv species product form, Mv subforms</p>	<u>Subform_id</u>	<u>Description</u>	20	NAT – Bluefin Tuna	21	NAT - Swordfish	<u>Code_id</u>	<u>Description</u>	19055	Tuna, Atlantic Bluefin
	<u>Subform_id</u>	<u>Description</u>											
20	NAT – Bluefin Tuna												
21	NAT - Swordfish												
<u>Code_id</u>	<u>Description</u>												
19055	Tuna, Atlantic Bluefin												
CATCH	SPECIE_ID SPCMN_TAG_NUM KEPT_WT KEPT_WT2 SPECIE_FRM2_ID DRS_LEN FLNK_LEN												

General rules – restrictions on data elements																			
Rule No.	Node(s)	Element(s)	Rule																
802b	GENERAL_INFO	SUBFORM_ID	<p>When the sub-form selected (General_info.Subform_id) is one of</p> <table><thead><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>20</td><td>NAT – Bluefin Tuna</td></tr><tr><td>21</td><td>NAT - Swordfish</td></tr></tbody></table> <p>if the species caught (Catch.Specie_id) is one of :</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>1107</td><td>Tuna, Albacore</td></tr><tr><td>1272</td><td>Tuna, Bigeye</td></tr><tr><td>1354</td><td>Tuna, Skipjack</td></tr><tr><td>1386</td><td>Tuna, Yellowfin</td></tr></tbody></table> <p>and the kept weight (Catch.Kept_wt) is greater than 0, then the capture of the following elements is mandatory:</p> <ul style="list-style-type: none">- “Dressed” weight estimate of fish kept(Catch.Kept_wt2)- Species product form (Catch.Specie_frm2_id) <p>and the capture of the following elements must be blocked:</p> <ul style="list-style-type: none">- Tuna tag number (Catch.Spcmn_tag_num)- Dressed length (Catch.Drs_len)- Flank length (Catch.Flnk_len) <p>Ref table: Mv_species, Mv_species_product_form, Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	20	NAT – Bluefin Tuna	21	NAT - Swordfish	<u>Code_id</u>	<u>Description</u>	1107	Tuna, Albacore	1272	Tuna, Bigeye	1354	Tuna, Skipjack	1386	Tuna, Yellowfin
	<u>Subform_id</u>	<u>Description</u>																	
20	NAT – Bluefin Tuna																		
21	NAT - Swordfish																		
<u>Code_id</u>	<u>Description</u>																		
1107	Tuna, Albacore																		
1272	Tuna, Bigeye																		
1354	Tuna, Skipjack																		
1386	Tuna, Yellowfin																		
CATCH	SPECIE_ID SPCMN_TAG_NUM KEPT_WT KEPT_WT2 SPECIE_FRM2_ID DRS_LEN FLNK_LEN																		
802c	GENERAL_INFO	SUBFORM_ID	<p>When the sub-form selected (General_info.Subform_id) is one of</p> <table><thead><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>20</td><td>NAT – Bluefin Tuna</td></tr><tr><td>21</td><td>NAT - Swordfish</td></tr></tbody></table> <p>if the species caught (Catch.Specie_id) is NOT one of :</p> <table><thead><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td>19055</td><td>Tuna, Atlantic Bluefin</td></tr><tr><td>1107</td><td>Tuna, Albacore</td></tr></tbody></table>	<u>Subform_id</u>	<u>Description</u>	20	NAT – Bluefin Tuna	21	NAT - Swordfish	<u>Code_id</u>	<u>Description</u>	19055	Tuna, Atlantic Bluefin	1107	Tuna, Albacore				
	<u>Subform_id</u>	<u>Description</u>																	
20	NAT – Bluefin Tuna																		
21	NAT - Swordfish																		
<u>Code_id</u>	<u>Description</u>																		
19055	Tuna, Atlantic Bluefin																		
1107	Tuna, Albacore																		
CATCH	SPECIE_ID SPCMN_TAG_NUM KEPT_WT2 SPECIE_FRM2_ID DRS_LEN FLNK_LEN																		

General rules – restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
			1272 Tuna, Bigeye 1354 Tuna, Skipjack 1386 Tuna, Yellowfin Then the capture of the following elements must be blocked: <ul style="list-style-type: none">- Tuna tag number (Catch.Spcmn_tag_num)- “Dressed” weight estimate of fish kept(Catch.Kept_wt2)- Species product form (Catch.Specie_frm2_id)- Dressed length (Catch.Drs_len)- Flank length (Catch.Flnk_len) Ref table: Mv_species, Mv_species_product_form, Mv_subforms				
803	CATCH	SPECIE_FRM2_ID	Only the following values must be available and considered valid: <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>4645</td><td>Dressed</td></tr></table> Ref table: Mv_species_product_form	<u>Code_id</u>	<u>Description</u>	4645	Dressed
<u>Code_id</u>	<u>Description</u>						
4645	Dressed						
923	GENERAL_INFO	SUBFORM_ID	If the subform (General_info.Subform_id) is one of: <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>22</td><td>PAC - Albacore Tuna (Pacific only)</td></tr></table> Then both values (Catch.Nb_spcmn_kept and Catch.Avg_wt_spcmn_kept) must be either: <ul style="list-style-type: none">- Empty- Equal to 0- Greater than 0 Ref table: Mv_subforms	<u>Code_id</u>	<u>Description</u>	22	PAC - Albacore Tuna (Pacific only)
	<u>Code_id</u>	<u>Description</u>					
22	PAC - Albacore Tuna (Pacific only)						
CATCH	NB_SPCMN_KEPT AVG_WT_SPCMN_KEPT						
	GENERAL_INFO	SUBFORM_ID					

General rules – restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
924	CATCH	SPECIE_ID NB_SPCMN_DISC AVG_WT_SPCMN_DISC	<p>If the subform (General_info.Subform_id) is one of:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>22</td><td>PAC - Albacore Tuna (Pacific only)</td></tr></table> <p>And the species caught is not “Birds” (Catch.Specie_id<> 14183)</p> <p>Then, both values (Catch.Nb_spcmn_disc and Catch.Avg_wt_spcmn_disc) must be either:</p> <ul style="list-style-type: none">- Empty- Equal to 0- Greater than 0 <p>Ref table: Mv_subforms, Mv_species</p>	Code_id	Description	22	PAC - Albacore Tuna (Pacific only)
Code_id	Description						
22	PAC - Albacore Tuna (Pacific only)						
926	EFFORT_SAMPLE	SPCMN_NUM	<p>A new specimen number (Effort_sample.Spcmn_num) must be allocated automatically and sequentially for each new specimen sampled. It must start from 1 and be reset to 1 at each new EFFORT occurrence.</p>				
925	EFFORT_SAMPLE	SPECIE_ID	<p>Only this species (Effort_sample.Specie_id) must be available and considered valid:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>1107</td><td>Tuna, Albacore</td></tr></table> <p>Ref table: Mv_species</p>	Code_id	Description	1107	Tuna, Albacore
Code_id	Description						
1107	Tuna, Albacore						
442	LANDING	ARR_DT	<p>The date and time of arrival at wharf (Landing.Arr_dt) must be later than or equal to the date and time of the beginning of the fishing trip (Trip.Start_dt).</p>				
	TRIP	START_DT					
246	LANDING	ARR_DT	<p>The date and time of arrival at wharf (Landing.Arr_dt) must be later than or equal to the date and time of the last fishing effort (Effort.End_dt).</p>				
	EFFORT	END_DT					
45	LANDING	START_DT	<p>The landing date and time (Landing.Start_dt) must be later than or equal to the trip start date (Trip.Start_dt).</p>				
	TRIP	START_DT					
46	LANDING	START_DT	<p>The landing date and time (Landing.Start_dt) must be later than or equal to the end date of the last fishing effort date and time (Effort.End dt).</p>				
	EFFORT	END_DT					

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
160	LANDING	START_DT ARR_DT	The date and time of the landing (Landing.Start_dt) must be later than or equal to the arrival at wharf date and time (Landing.Arr_dt).
811	CATCH	SPECIE_ID KEPT_WT	The default value (proposed initial value) of the total weight of Bluefin tuna landed can be equal to the sum of the kept weight (catch.kept_wt) of all catches of the current logbook where the species is Tuna , Atlantic Bluefin (Catch.Specie_id=19055). Ref table: Mv_dfo_region, Mv_species,
	LANDING	TOT_BFT_LAND_WT	

5.3 DFO instructions

DFO instructions are documents allowing DFO to provide complementary information and details directly to fish harvesters. These documents are provided by DFO.

Rule No.	Rule
2500	Instructions provided by DFO must be available when using the client application. DFO instructions files can be found in the technical package.
	Files
	Files containing DFO instructions are: DFO instructions_NAT_226-1.2_eng.pdf (English version) DFO instructions_NAT_226-1.2_fre.pdf (French version)

Appendix A – List of valid targeted species per sub-form

When using the sub-form identified in the first column, only the targeted species indicated in the second column can be declared “targeted”, so, only these species must be available and considered valid for the sub-form:

Targeted species vs Sub-forms		
General_info.Subform_id – Sub-form name	Tgt_species.Specie_id - Species name	
20 - NAT - Bluefin Tuna	19055	Tuna, Atlantic Bluefin
	1107	Tuna, Albacore
	1272	Tuna, Bigeye
	1354	Tuna, Skipjack
	1386	Tuna, Yellowfin
21 - NAT - Swordfish	1366	Swordfish
	1107	Tuna, Albacore
	1272	Tuna, Bigeye
	1354	Tuna, Skipjack
	1386	Tuna, Yellowfin
22 - PAC - Albacore Tuna (Pacific only)	1107	Tuna, Albacore

Ref tables: Mv_subforms, Mv_species

Appendix B – List of valid fishing areas per sub-form

When using the sub-form identified in the first column, only the fishing areas indicated in the second column can be selected so, only these fishing areas must be available and considered valid for the sub-form:

Fishing areas vs Sub-forms		
General_info.Subform_id – Sub-form name	Effort.Fma_id – Fishing area name	
20 - NAT - Bluefin Tuna	39641	Bluefin Tuna - Gulf (New-Brunswick)
	39642	Bluefin Tuna - Gulf (Nova-Scotia)
	39643	Bluefin Tuna - Prince Edward Island
	39644	Bluefin Tuna - St-Margaret's Bay
	39645	Bluefin Tuna - Québec
	39646	Bluefin Tuna - Scotia Fundy
	39647	Bluefin Tuna – Newfoundland
21 - NAT – Swordfish	(n/a)	
22 - PAC - Albacore Tuna (Pacific only)		

Ref tables: Mv_subforms, Mv_fma

Appendix C – List of valid fishing gears per sub-form

When using the sub-form identified in the first column, only the fishing gears indicated in the second column can be selected so, only these fishing gears must be available and considered valid for the sub-form:

Fishing gears vs Sub-forms		
General_info.Subform_id – Sub-form name	Effort_by_gear.Gear_id – Gear description	
20 - NAT - Bluefin Tuna	3998	Rod and Reel
	37778	Tended Line
	947	Electric harpoon
	924	Trap net
21 - NAT - Swordfish	3998	Rod and reel
	922	Hand line (baited)
	914	Longline
	943	Harpoon and spear
	43813	Buoy gear
22 - PAC - Albacore Tuna (Pacific only)	37778	Tended Line

Ref tables: Mv_subforms, Mv_gear_description

Appendix D – List of valid Administrative regions per sub-form

When using the sub-form identified in the first column, only the DFO administrative region indicated in the second column can be selected so, only these regions must be available and considered valid for the sub-form:

DFO Administrative regions vs Sub-forms		
General_info.Subform_id – Sub-form name	General_info.Reg_id – Name of the region	
20 - NAT - Bluefin Tuna	1014	Gulf
	1004	Maritimes
	1002	Newfoundland
	1006	Quebec
	1008	Central & Arctic
	1010	Pacific
21 - NAT - Swordfish	1014	Gulf
	1004	Maritimes
	1002	Newfoundland
	1006	Quebec
22 - PAC - Albacore Tuna (Pacific only)	1010	Pacific

Ref tables: Mv_subforms, Mv_dfo_region