



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Fact sheet

ELOG - Logbook – Freshwater and anadromous species

All DFO Regions

(FS-NAT-231-4-EN)

October 7, 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 and its sub-forms. 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.

The 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 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 – Freshwater and anadromous species	231

3. Fact sheet validity date

Version	Valid since	Expiry date
231.1	2021-11-30	2022-01-30
231.2	2022-01-31	2022-04-20
231.3	2022-04-21	2024-10-06
231.4	2024-10-07	

¹ See document 43258.231.NATIONAL - ELOG - Logbook – Freshwater and anadromous species - JBE - Journal de bord – Espèces d’eaux douces et anadromes.csv

4. Change history

Version	Date	Description of change
231.1	2021-11-30	Creation of version 231.1
231.2	2022-01-31	Addition of rule #931 (FIN) Addition of rule #934 (Statistical districts)
231.3	2022-04-21	Addition of rule #966 (CTNR_TYP_ID) Addition of rule #967 (CTNR_TYP_ID)
231.4	2024-10-07	Removal of all rules related to Subform 71 – MAR – Elver Removal of Rule #601 Removal of Rule #823 Correction of the rule number from #927 to #928 Addition of Rule #985 & Appendix E Rule 2500: New version of the “DFO instructions” documents (v. 4)

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 – Freshwater and anadromous species, version 231).

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 this E-logbook.

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
1519	CREW_INFO
1503	SAR
1505	PCONS
1500	EFFORT
1508	LANDING
1511	TRANSFER

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
1033	Crew_info	If this data group is used: - Must contain at least one occurrence of the node Crew_info
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
1053	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 Effort_by_gear - Must contain at least one occurrence of the node Effort_detail
1024	Transfer	If this data group is used: - Must contain at least one occurrence of the node Transfer - Must contain at least one occurrence of the node Transfer_dtl
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														
2035	GENERAL_INFO.SUBFORM_ID EFFORT_DETAIL TGT_SPECIES CATCH	<p>When the subform 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>65</td><td>ARC - Arctic Char - Gillnet</td></tr><tr><td>66</td><td>ARC - Arctic Char - Weir</td></tr><tr><td>69</td><td>MAR - Sturgeon</td></tr><tr><td>70</td><td>MAR - Freshwater Log</td></tr><tr><td>72</td><td>GLF - Eel</td></tr><tr><td>73</td><td>NL – Eel</td></tr></table> <p>Then each occurrence of node EFFORT_DETAIL must include at least one occurrence of the CATCH node having the species caught (Catch.Specie_id) equal to the targeted species (Tgt_species.Specie_id), even if there was no catch.</p> <p>When there is no catch during the fishing effort, the fisher will have to report a quantity caught or a quantity kept equal to 0 of the targeted species, depending on the quantity requested in the subform (Catch.Nb_spcmn_cght or Catch.Kept_wt).</p>	<u>Subform_id</u>	<u>Description</u>	65	ARC - Arctic Char - Gillnet	66	ARC - Arctic Char - Weir	69	MAR - Sturgeon	70	MAR - Freshwater Log	72	GLF - Eel	73	NL – Eel
<u>Subform_id</u>	<u>Description</u>															
65	ARC - Arctic Char - Gillnet															
66	ARC - Arctic Char - Weir															
69	MAR - Sturgeon															
70	MAR - Freshwater Log															
72	GLF - Eel															
73	NL – Eel															
2036	GENERAL_INFO.SUBFORM_ID EFFORT_DETAIL.CTCH_IND CATCH	<p>When the subform 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>64</td><td>ARC - Commercial Log - Great Slave Lake</td></tr><tr><td>67</td><td>ARC - Great Slave Lake Waterbodies Log</td></tr><tr><td>68</td><td>ARC - Commercial Log – Inuvik</td></tr></table> <p>If the user has indicated he/she have catches to report, so, if Effort_detail.Ctch_ind = "Y", then this occurrence of node EFFORT_DETAIL must include at least one occurrence of node CATCH.</p> <p>If the user has indicated he/she does not have catches to report, so, if Effort_detail.Ctch_ind = "N", then this occurrence of node EFFORT_DETAIL must not include any occurrence of node CATCH.</p>	<u>Subform_id</u>	<u>Description</u>	64	ARC - Commercial Log - Great Slave Lake	67	ARC - Great Slave Lake Waterbodies Log	68	ARC - Commercial Log – Inuvik						
<u>Subform_id</u>	<u>Description</u>															
64	ARC - Commercial Log - Great Slave Lake															
67	ARC - Great Slave Lake Waterbodies Log															
68	ARC - Commercial Log – Inuvik															

General rules – Restrictions on data groups																
2037	EFFORT (nodes EFFORT and TGT_SPECIES)	<p>When the subform 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>65</td><td>ARC - Arctic Char - Gillnet</td></tr><tr><td>66</td><td>ARC - Arctic Char - Weir</td></tr><tr><td>69</td><td>MAR - Sturgeon</td></tr><tr><td>70</td><td>MAR - Freshwater Log</td></tr><tr><td>72</td><td>GLF - Eel</td></tr><tr><td>73</td><td>NL – Eel</td></tr></table> <p>Then <u>one</u> targeted species must be specified, so, one and only one occurrence of node TGT_SPECIES must be present in an EFFORT node. For all other subforms, the targeted species is not requested, so, there shall be no occurrence of node TGT_SPECIES in the EFFORT nodes.</p>	<u>Subform_id</u>	<u>Description</u>	65	ARC - Arctic Char - Gillnet	66	ARC - Arctic Char - Weir	69	MAR - Sturgeon	70	MAR - Freshwater Log	72	GLF - Eel	73	NL – Eel
<u>Subform_id</u>	<u>Description</u>															
65	ARC - Arctic Char - Gillnet															
66	ARC - Arctic Char - Weir															
69	MAR - Sturgeon															
70	MAR - Freshwater Log															
72	GLF - Eel															
73	NL – Eel															
2038	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.Nb_ctnr_kept >= 0 or Catch.Nb_ctnr_disc >= 0 or Catch.spcmn_cgght_wt >= 0 or Catch.Nb_spcmn_cgght >= 0 or Catch.Kept_wt >= 0 or Catch.Nb_spcmn_kept >= 0 or Catch.Disc_wt >= 0 or Catch.Nb_spcmn_disc >= 0</p>														
2034	CATCH vs CATCH_DTL MAR – Sturgeon (Subform_id 69)	<p>When the selected subform is “MAR Sturgeon” (General_info.Subform_id=69), the number of occurrence of node CATCH_DTL in the CATCH node must be equal to the number of Atlantic Sturgeon kept (Catch.Nb_spcmn_kept when Catch.Specie_id = 13672).</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 must not limit 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	A sub-form (General_info.Subform_id) will have to be selected by the fish harvester.
			Document named “Subforms_requirements_231.xlsx” list the requirements (Mandatory/Optional/Blocked) for all the elements of the form per sub-forms.
			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.
			The requirement “Blocked” identified in this document have the priority over all the other rules listed in this fact sheet.
789	TRIP	AVG_CNT_WT_PER_CT NR	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.
789	SAR	WT NB_SPCMN	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.
789	PCONS	WT NB_SPCMN NB_CTNR_KEPT	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.
789	EFFORT_DETAIL	TOT_GEAR_LEN NB_GEAR_HLD	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.

General rules – restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
		NB_SKT NB_HKS SOAKED_DUR FSHG_DUR AVG_GR_DPTH											
	CATCH	NB_CTNR_KEPT NB_CTNR_DISC NB_SPCMN_CGHT NB_SPCMN_KEPT NB_SPCMN_DISC SPCMN_CGHT_WT KEPT_WT DISC_WT NB_SPCMN_SBLGL											
	CATCH_DTL	SPCMN_LEN											
	TRANSFER_DTL	NB_CTNR NB_SPCMN_TRNSF											
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	TIDAL_WTR_IND CTCH_IND ANOXIC_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>231</td><td>ELOG - Logbook – Freshwater and anadromous species</td></tr></table> Ref table : Mv_form_version	<u>Form_version_id</u>	<u>Description</u>	231	ELOG - Logbook – Freshwater and anadromous species						
<u>Form_version_id</u>	<u>Description</u>												
231	ELOG - Logbook – Freshwater and anadromous species												
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>64</td><td>ARC - Commercial Log - Great Slave Lake</td></tr><tr><td>65</td><td>ARC - Arctic Char - Gillnet</td></tr><tr><td>66</td><td>ARC - Arctic Char - Weir</td></tr><tr><td>67</td><td>ARC - Great Slave Lake Waterbodies Log</td></tr></table>	<u>Subform_id</u>	<u>Description</u>	64	ARC - Commercial Log - Great Slave Lake	65	ARC - Arctic Char - Gillnet	66	ARC - Arctic Char - Weir	67	ARC - Great Slave Lake Waterbodies Log
<u>Subform_id</u>	<u>Description</u>												
64	ARC - Commercial Log - Great Slave Lake												
65	ARC - Arctic Char - Gillnet												
66	ARC - Arctic Char - Weir												
67	ARC - Great Slave Lake Waterbodies Log												

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
			68 ARC - Commercial Log - Inuvik 69 MAR - Sturgeon 70 MAR - Freshwater Log 72 GLF - Eel 73 NL – Eel Ref table : Mv_subforms
2	GENERAL_INFO	REG_ID	Only these values must be available and considered valid: <u>Code_id</u> <u>Description</u> 1014 Gulf 1004 Maritimes 1002 Newfoundland 1008 Central & Arctic Ref table : Mv_dfo_region
985	GENERAL_INFO	REG_ID SUBFORM_ID	Only these DFO administrative regions must be available and considered valid for the sub-form: (see Appendix E – List of valid sub-forms for each administrative regions) Ref table: Mv_dfo_region, Mv_subforms
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 »

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
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).
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.
901	TRIP	FSH_SEAS_YR	Year must be between 2022 and 2032 inclusively.
902	TRIP	FSH_SEAS_YR	Year of these dates must be greater than or equal to the year of the fishing season (Trip.Fsh_seas_yr)
	SAR	SAR_DT	
	EFFORT	START_DT	
	EFFORT	END_DT	
	EFFORT_DETAIL	START_DT	
	EFFORT_DETAIL	END_DT	
	TRANSFER	TRNSF_DT	
824	SAR	SAR_DT	All these dates and time must be before or equal to the current date and time (UTC), at the time of entry.
	EFFORT	START_DT	
	EFFORT	END_DT	
	EFFORT_DETAIL	START_DT	
	EFFORT_DETAIL	END_DT	
	TRANSFER	TRNSF_DT	
613	SAR	LAT	These latitudes must be greater than or equal to 40.0000 (deg) and less than or equal to 84.0000 (deg).
	EFFORT_DETAIL	LAT	
614	SAR	LONG	These longitudes must be greater than or equal to -141.0000 (deg) and less than or equal to -52.0000 (deg).
	EFFORT_DETAIL	LONG	

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
825	PCONS	SPECIE_ID	<p>Only these species must be available and considered valid for the sub-form:</p> <p>(see Appendix C – List of species that can be declared in nodes CATCH, PCONS or TRANSFER DTL, per sub-forms)</p> <p>Ref table: Mv_species, Mv_subforms</p>
	GENERAL_INFO	SUBFORM_ID	
903	PCONS	WT NB_SPCMN	<p>In each occurrence of node PCONS, at least one quantity must be declared, so, at least one of these two elements (Pcons.Nb_spcmn or Pcons.wt) must contain a value greater than or equal to 0.</p>
32	EFFORT	START_DT END_DT	<p>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).</p>
826	GENERAL_INFO	SUBFORM_ID	<p>Only these targeted species 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_species, Mv_subforms</p>
	TGT_SPECIES	SPECIE_ID	
928	TGT_SPECIES	SPECIE_ID OTHR_SPC_DSC	<p>When the targeted species is “Other” (Tgt_species.Specie_id=814) then the entry of the species description (Tgt_species.Othr_spc_dsc) becomes mandatory. Otherwise, the entry of the species description must be blocked.</p> <p>Ref table: Mv_species</p>

General rules – restrictions on data elements																	
Rule No.	Node(s)	Element(s)	Rule														
131	EFFORT	FMA_ID	<p>Only these values must be available and considered valid:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>39813</td><td>Region I - Mackenzie delta</td></tr><tr><td>39814</td><td>Region II - Slave Mackenzie</td></tr><tr><td>39815</td><td>Region III - Central inland</td></tr><tr><td>39816</td><td>Region IV - Central Arctic</td></tr><tr><td>39817</td><td>Region VI - Baffin - High Arctic</td></tr><tr><td>39818</td><td>Region V – Keewatin</td></tr></table> <p>Ref table: Mv_fma</p>	Code_id	Description	39813	Region I - Mackenzie delta	39814	Region II - Slave Mackenzie	39815	Region III - Central inland	39816	Region IV - Central Arctic	39817	Region VI - Baffin - High Arctic	39818	Region V – Keewatin
Code_id	Description																
39813	Region I - Mackenzie delta																
39814	Region II - Slave Mackenzie																
39815	Region III - Central inland																
39816	Region IV - Central Arctic																
39817	Region VI - Baffin - High Arctic																
39818	Region V – Keewatin																
934	GENERAL_INFO	SUBFORM_ID	<p>Only these statistical districts (Effort.Stat_sect_id) must be available and considered valid for the sub-form:</p> <p>(see Appendix D – List of valid statistical district per subform (Nova Scotia or Maritimes))</p> <p>Ref tables: mv_stat_district_section, Mv_subforms</p>														
	EFFORT	STAT_SECT_ID															
900	EFFORT	FMA_ID	<p>When both elements contain a value, the combination of Fishery Management Area (Effort.Fma_id) and waterbody (Effort.Waterbody_id) must be valid. To be valid, at least one record must be found in table Mv_waterbodies where:</p> <p>Effort.Waterbody_id = Mv_waterbodies.code_id and</p> <p>Effort.Fma_id = Mv_waterbodies.Fma_code_id</p> <p>Ref table: Mv_fma, Mv_waterbodies</p>														
		WATERBODY_ID															
929	EFFORT	WATERBODY_ID RIVER_SYS_DSC FSH_SITE_DSC	<p>In each occurrence of Effort node, at least one of these elements must contain a value (not null).</p> <p><u>Exception:</u> Subform “GLF – Eel” (General_info.Subform_id=72) do not includes any of these elements, so, not applicable for this sub-form.</p>														

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
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>
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>

General rules – restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
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>						
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>						
35	EFFORT_BY_GEAR	GEAR_ID	<p>Only these fishing gears must be available and considered valid for the sub-form:</p> <p>(see appendix B)</p> <p>Ref table: Mv_gear_description, Mv_subforms</p>						
	GENERAL_INFO	SUBFORM_ID							
905	EFFORT_BY_GEAR	GEAR_ID GEAR_LEN	<p>If the fishing gear (Effort_by_gear.Gear_id) is one of :</p> <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>905</td><td>Gillnet</td></tr><tr><td>906</td><td>Gillnet (drift)</td></tr></table> <p>Then the entry of the gear length (Effort_by_gear.Gear_len) is mandatory, otherwise, the entry of the gear length must be blocked.</p> <p>Ref table: Mv_gear_description</p>	<u>Code_id</u>	<u>Description</u>	905	Gillnet	906	Gillnet (drift)
<u>Code_id</u>	<u>Description</u>								
905	Gillnet								
906	Gillnet (drift)								

General rules – restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
833	EFFORT_DETAIL	START_DT END_DT	These dates and times of the Effort_detail node 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							
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).						
906	EFFORT_BY_GEAR	GEAR_ID	If the fishing gear (Effort_by_gear.Gear_id) is one of : <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>905</td><td>Gillnet</td></tr><tr><td>906</td><td>Gillnet (drift)</td></tr></table> Then the entry of the number of gear hauled (Effort_detail.Nb_gear_hld) must be blocked. Ref table: Mv_gear_description	<u>Code_id</u>	<u>Description</u>	905	Gillnet	906	Gillnet (drift)
	<u>Code_id</u>	<u>Description</u>							
905	Gillnet								
906	Gillnet (drift)								
EFFORT_DETAIL	NB_GEAR_HLD								
907	EFFORT_BY_GEAR	GEAR_ID	If the fishing gear (Effort_by_gear.Gear_id) is one of : <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>905</td><td>Gillnet</td></tr><tr><td>906</td><td>Gillnet (drift)</td></tr></table> Then the entry of the number of skates (Effort_detail.Nb_skt) is mandatory, otherwise, the entry of the number of skates must be blocked. Ref table: Mv_gear_description	<u>Code_id</u>	<u>Description</u>	905	Gillnet	906	Gillnet (drift)
	<u>Code_id</u>	<u>Description</u>							
905	Gillnet								
906	Gillnet (drift)								
EFFORT_DETAIL	NB_SKT								
908	EFFORT_BY_GEAR	GEAR_ID	If the fishing gear (Effort_by_gear.Gear_id) is one of : <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>914</td><td>Longline</td></tr></table> Then the entry of the number of hooks (Effort_detail.Nb_hks) is mandatory,	<u>Code_id</u>	<u>Description</u>	914	Longline		
	<u>Code_id</u>	<u>Description</u>							
914	Longline								
EFFORT_DETAIL	NB_HKS								

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
			otherwise, the entry of the number of hooks must be blocked. Ref table: Mv_gear_description
616	EFFORT_DETAIL	AVG_GR_DPTH	The depth must be greater or equal than 0 and less than 615 meters.
836	CATCH	SPECIE_ID	Only these species must be available and considered valid for the sub-form: (see Appendix C – List of species that can be declared in nodes CATCH, PCONS or TRANSFER DTL, per sub-forms) Ref table: Mv_species, Mv_subforms
	GENERAL_INFO	SUBFORM_ID	
837	CATCH	SPECIE_ID OTHR_SPC_DSC	When the species caught is “Other” (Catch.Specie_id=814) then the entry of the species description (Catch.Othr_spc_dsc) becomes Mandatory. Otherwise, the entry of the species description must be blocked. Ref table: Mv_species
762	CATCH	NB_CTNR_KEPT NB_CTNR_DISC KEPT_WT NB_SPCMN_KEPT DISC_WT NB_SPCMN_DISC SPCMN_CGHT_WT NB_SPCMN_CGHT	In each occurrence of node CATCH, at least one quantity must be declared, so, at least one of these elements must contain a value greater than or equal to 0.
930a	GENERAL_INFO	SUBFORM_ID	If the sub-form is “MAR-Sturgeon” (General_info.Subform_id=69) and the species caught is Atlantic Sturgeon (Catch.specie_id=13672) then the kept quantities (Catch.Kept_wt and Catch.Nb_spcmn_kept) must both be empty or both contain a value greater than or equal to 0. Ref table: Mv_species, Mv_subforms
	CATCH	SPECIE_ID NB_SPCMN_KEPT KEPT_WT	
930b	GENERAL_INFO	SUBFORM_ID	If the sub-form is “GLF-Eel” or “NL-Eel” (General_info.Subform_id=72 or 73) and the species caught is
	CATCH	SPECIE_ID NB_SPCMN_KEPT KEPT_WT	

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
			American Eel (Catch.specie_id=1296) then the kept quantities (Catch.Kept_wt and Catch.Nb_spcmn_kept) must both be empty or both contain a value greater than or equal to 0. Ref table: Mv_species, Mv_subforms
913	CATCH	CTNR_TYP_ID	Only this type of container (Catch.Ctnr_typ_id) must be available and considered valid: <u>Code_id</u> <u>Description</u> 37878 Box(es) Ref table: Mv_container_type
912	CATCH	CTNR_TYP_ID NB_CTNR_KEPT NB_CTNR_DISC	If the number of containers (Catch.Nb_ctnr_kept or Catch.Nb_ctnr_disc) contains a value greater or equal to 0, then the capture of the container type (Catch.Ctnr_typ_id) is mandatory, otherwise, the capture of the container type must be blocked. Ref table: Mv_container_type
910	(node CATCH)		A new specimen number (Catch_dtl.Spcmn_num) must be allocated automatically and sequentially for each occurrence of node Catch_dtl in a node Catch. (integer, starting from 1)
	CATCH_DTL	SPCMN_NUM	
911	CATCH_DTL	SPCMN_LEN	Specimen length (Catch.Spcmn_len) must be between 0 and 457 cm.
909	CATCH_DTL	SPCMN_SEX_ID	Only these sexes (Catch.Spcmn_sex_id) must be available and considered valid: <u>Code_id</u> <u>Description</u> 4713 Male 4715 Female 11170 Unknown Ref table: Mv_sex

General rules – restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
917	CATCH	NB_SPCMN_DISC NB_SPCMN_DISC_ALIVE	If the number of specimens discarded is empty or equal to 0 (Catch.Nb_spcmn_disc=0 or is null) , then the entry of the number of specimen discarded alive (Catch.Nb_spcmn_disc_alive) must be blocked.				
918	CATCH	NB_SPCMN_DISC NB_SPCMN_DISC_ALIVE	The number of specimens discarded alive (Catch.Nb_spcmn_disc_alive) must be less than or equal to the number of specimen discarded (Catch.Nb_spcmn_disc).				
849	TRANSFER_DTL	SPECIE_ID	Only these species must be available and considered valid for the sub-form: (see Appendix C – List of species that can be declared in nodes CATCH, PCONS or TRANSFER DTL, per sub-forms) Ref table: Mv_species, Mv_subforms				
	GENERAL_INFO	SUBFORM_ID					
915	PCONS	SPECIE_FRM_ID	Only these values must be available and considered valid: <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>4691</td><td>Round</td></tr></table> Ref table: Mv_species_product_form	<u>Code_id</u>	<u>Description</u>	4691	Round
	<u>Code_id</u>	<u>Description</u>					
	4691	Round					
CATCH	SPECIE_FRM_ID						
TRANSFER_DTL	SPECIE_FRM_ID						
966	PCONS	CTNR_TYP_ID NB_CTNR_KEPT	If the number of containers (Pcons.Nb_ctnr_kept) contains a value greater or equal to 0, then the capture of the container type (Pcons.Ctnr_typ_id) is mandatory, otherwise, the capture of the container type must be blocked. Ref table: Mv_container_type				
967	TRANSFER_DTL	CTNR_TYP_ID NB_CTNR	If the number of containers (Transfer_dtl.Nb_ctnr) contains a value greater or equal to 0, then the capture of the container type (Transfer_dtl.Ctnr_typ_id) is mandatory, otherwise, the capture of the container type must be blocked. Ref table: Mv container type				

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_231-4.0_eng.pdf (English version) DFO instructions_NAT_231-4.0_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
65 - ARC - Arctic Char – Gillnet	1278 Char, Arctic
66 - ARC - Arctic Char – Weir	
69 - MAR - Sturgeon	13672 Sturgeon, Atlantic
70 - MAR - Freshwater Log	1345 Shad, American 1973 Sucker, White 1266 Alewife 13305 Bullhead, Brown 1296 Eel, American 17375 Smelt 18286 Trouts not specified 814 Other
72 - GLF – Eel	1296 Eel, American
73 - NL - Eel	

Ref tables: Mv_subforms, Mv_species

Appendix B – 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
64 - ARC - Commercial Log - Great Slave Lake 67 - ARC - Great Slave Lake Waterbodies Log 68 - ARC - Commercial Log – Inuvik 65 - ARC - Arctic Char – Gillnet 69 - MAR - Sturgeon	905 Gillnet
66 - ARC - Arctic Char – Weir	926 Weir
70 - MAR - Freshwater Log	908 Square net 905 Gillnet 909 Box net 914 Longline 911 Fyke net 926 Weir 934 Dip net 43344 Dip net with wings 946 Eel pot 905 Gillnet 906 Gillnet (drift)
72 - GLF – Eel 73 - NL - Eel	911 Fyke net 914 Longline 924 Trap net 926 Weir 945 Spear 946 Eel pot 39620 Other

Ref tables: Mv_subforms, Mv_gear_description

Appendix C – List of species that can be declared in nodes CATCH, PCONS or TRANSFER_DTL, per sub-forms

When using the sub-form identified in the first column, only the species indicated in the second column can be selected/reported in nodes CATCH,PCONS and TRANSFER_DTL so, only these species must be available and considered valid for the sub-form:

Species that can be selected/reported in sections catch (CATCH), personal consumption (PCONS) or transfer(TRANSFER_DTL) per sub-forms	
General_info.Subform_id – Sub-form name	Catch.Specie_id – Species name Pcons.Specie_id – Species name Transfer_dtl.Specie_id – Species name
64 - ARC - Commercial Log - Great Slave Lake 67 - ARC - Great Slave Lake Waterbodies Log 68 - ARC - Commercial Log - Inuvik	4569 Whitefish, Lake 18581 Inconnu 18299 Trout, Lake 1993 Pike, Northern (Jackfish) 1957 Walleye (Pickerel) 16683 Burbot (Mariah) 14048 Suckers 4415 Cisco, Lake (Tullibee/Lake Herring) 814 Other
65 - ARC - Arctic Char - Gillnet 66 - ARC - Arctic Char – Weir	16683 Burbot 1278 Char, Arctic 14670 Cisco, Arctic 4415 Cisco, Lake 14672 Cisco, Least 18298 Dolly varden 15799 Goldeye, Winnipeg 19061 Grayling, Arctic 18581 Inconnu 1993 Pike, Northern 14050 Sucker, Longnose 1973 Sucker, White 14048 Suckers 18297 Trout, Brook 18296 Trout, Bull 18299 Trout, Lake 1977 Trout, Rainbow 1957 Walleye 4567 Whitefish, Broad 4569 Whitefish, Lake 17679 Whitefish, Round 14669 Whitefishes (Coregonus) 814 Other

Species that can be selected/reported in sections catch (CATCH), personal consumption (PCONS) or transfer(TRANSFER_DTL) per sub-forms	
General_info.Subform_id – Sub-form name	Catch.Specie_id – Species name Pcons.Specie_id – Species name Transfer_dtl.Specie_id – Species name
69 - MAR - Sturgeon	13672 Sturgeon, Atlantic 13670 Sturgeon, Shortnose
70 - MAR - Freshwater Log	1345 Shad, American 1973 Sucker, White 1266 Alewife 13305 Bullhead, Brown 1296 Eel, American 17375 Smelt 18286 Trouts not specified 1332 Salmon, Atlantic 814 Other
72 - GLF – Eel	1296 Eel, American 18286 Trouts not specified 1332 Salmon, Atlantic 1299 Flatfishes, not specified 1309 Hake, White 1367 Tomcod, Atlantic 1345 Shad, American 1363 Bass, Striped 1917 Crab, Green 1985 Whelk 814 Other
73 - NL - Eel	(All code_id of the MV_SPECIES table)

Appendix D – List of valid statistical district per subforms (Nova Scotia or Maritimes only)

When using the sub-form identified in the first column, only the statistical districts indicated in the second column can be selected/reported in node EFFORT so, only these statistical district must be available and considered valid for the sub-form:

Statistical districts that can be selected/reported in the EFFORT section (EFFORT) per sub-forms		
General_info.Subform_id – Sub-form name	Effort.Stat_sect_id	Statistical district description
69 - MAR - Sturgeon	43285	1 - Inverness County line to Path End
	43286	2 - Victoria County line at Broad Cove (excl.)
	43287	3 - Broad Cove (incl.) in Richmond County
	43288	4 - South of Path End (incl.) to Cape Breton County
	43289	6 - Victoria County line at Bridgeport - East Bay (excl.)
	43290	7 - From Bridgeport - East Bay (incl.) to Richmond County
	43291	8 - Cape Breton County line to St. Peter's Canal
	43292	9 - From St. Peter's Canal to Inverness County, including Madame Island
	43293	10 - Cumberland County to Pictou County (on the Gulf side)
	43294	11 - Colchester County to the west bank of Pictou Harbour incl. (Pictou Island included).
	43295	12- Incl. of the eastern shore of Pictou Harbour to the Antigonish County line.
	43296	13 - Antigonish County
	43297	14 - Antigonish County line to Halfway Cove (excl.)
	43298	15 - Halfway Cove (incl.) to Little Harbour (incl.)
	43299	16 - Little Harbour (excl.) to County Harbour (excl.)
	43300	17 - From County Harbour (incl.) to the county boundary in Halifax.
	43301	18 - Cole Harbour to the east shore of Halifax Harbour to the mouth of the Sackville River
	43302	19 - Guysborough County line to Newcombe Creek, East Ship Harbour.
	43303	20 - Newcombe Creek, East Ship Harbour (excl.) to Cole Harbour (excl.).
	43304	21 - Halifax, west shore port Hali.+Bedford Basin; incl riv. Sackville, Rawdon and Fennerty Plant
	43305	22 - Arm Bridge on the west bank of the northwest arm to Black Point, Shad Bay (incl.)
	43306	23 - Black Point, Shad Bay (excl.) on the edge of Lunenburg County.
	43307	24 - From Cape Chignecto (incl.) to the New Brunswick border
	43308	25 - Halifax County boundary to Oakland (incl.), east side of Mahone Bay.
	43309	26 - Mahone Bay (incl.) to the La Have River
	43310	27 - La Have River to Queens County.
	43311	28 - Queens County
	43312	30 - Queens County line to Jordan River
	43313	31 - Jordan River to Barrington River
	43314	32 - Barrington River to the line of Yarmouth County.
	43315	33 - Shelburne County line to Comeau Hill (incl.)
	43316	34 - From Comeau Hill (excl.) to Digby County (excl.)
	43317	35 - Hampton to the border of Kings County
	43318	36 - Boundary of Yarmouth County to the Sissiboo River.
	43319	37 - Digby Neck - Brier Island in Rossway (incl.).
	43320	38 - From the Sissiboo River to Annapolis County; Digby neck in Rossway (excl.).
	43321	39 - Boundary of Digby County to Hampton (excl.)
	43322	40 - Boundary of Annapolis County to Cape Split (excl.).
	43323	41 - Cape Split (incl.) to the limit of Hants County
	43324	42 - Hants County plus the stewart River tidal portion (Colchester Co.)
	43325	43 - Cumberland County line to Hants County line, except tidal portion of the Stewart River
	43326	44 - Colchester County line to Cape Chignecto (excl.)
	43327	45 - New Brunswick border (Northumberland det.) to Pugwash Point (incl.)
	43328	46 - Pugwash Point (excl.) to Colchester County.
	43329	48 - St. John County, east of the Saint John River

Statistical districts that can be selected/reported in the EFFORT section (EFFORT) per sub-forms		
General_info.Subform_id – Sub-form name	Effort.Stat_sect_id	Statistical district description
	43330	49 - St. John County, west of the Saint John River
	43331	50 - Grand Manan Island
	43332	51 - West Isles and Campobello
	43333	52 - International border to Back Bay
	43334	53 - Back Bay in St. John's County at Point Lepreau, including Wolves Islands
	43335	55 - Kings County
	43336	56 - Queens County
	43337	57 - Sunbury County
	43338	58 - York County
	43339	59 - Carleton County
	43272	78 - Kent County to Lower Cape Bald (incl.)

Appendix E - List of valid sub-forms for each administrative region.

When the administrative region identified in the first column is selected, only the sub-forms indicated in the second column must be available and considered valid for the administrative region:

Administrative Region vs Sub-forms	
General_info.Reg_id – Region name	General_info.sub-form name
1002 Newfoundland	73 – NL - Eel
1004 Maritimes	69 – MAR – Sturgeon 70 – MAR – Freshwater Log
1008 Arctic	64 – ARC – Commercial Log – Great Slave Lake 65 – ARC – Arctic Char – Gillnet 66 – ARC – Arctic Char – Weir 67 – ARC – Great Slave Lake – Waterbodies Log 68 – ARC – Commercial Log - Inuvik
1014 Gulf	72 – GLF - Eel

Ref tables: Mv_dfo_region, Mv_subforms