



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Fact sheet

ELOG – Logbook – Shrimp

(Excluding offshores)

All DFO Regions

(FS-NAT-229-6-EN)

February 28, 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 – Shrimp (excluding offshores)	229

3. Fact sheet validity date

Version	Valid since	Expiry date
229.1	2021-07-05	2021-11-02
229.2	2021-11-03	2022-02-01
229.3	2022-02-02	2022-03-29
229.4	2022-03-30	2022-07-12
229.5	2022-07-13	2024-02-27
229.6	2024-02-28	

¹ See document 43244.229.NATIONAL ELOG - Logbook – Shrimp - JBE - Journal de bord Crevette.csv

4. Change history

Version	Date	Description of change
229.1	2021-07-05	Creation of version 229.1
229.2	2021-11-03	Removed section "Client group" Sub-forms naming have changed (standardized)
229.3	2022-02-02	Addition of rule #931 (label of FIN)
229.4	2022-03-30	Modifications after regional revisions <ul style="list-style-type: none"> - Added element Effort_by_gear.Gear_sbtvp_id to sub-form#3 - Replaced rule #612 by rules #612a and 612b (Effort_by_gear.Gear_sbtvp_id) - In rule #35, the following gear codes have been removed from the list: 877,878,880,881,882,10581,25247 and 39500 - Element START_LONG changed to END_LAT in rule #613 - Addition of rule #962 (size of gear in node GEAR_INFO) - Rule #34 (same list of targeted species) replaced by rule #826 (list of targeted species per sub-form) - Addition of rule #727 (gear name Pot -> Pot/Trap) - Addition of rule #963 (Mandatory elements when gear is a Trawl) - Addition of rule #964 and #965 (node Catch_dtl) - Withdrawal of rules #248, #619, #621,#622 et #623 (removal of transfer details) - Addition of appendix B and rules #825 (Pcons species) and #836 (Catch species) - Removal of rule #618 (Catch species list of sub-form #4) - Rule #2500: new version of the DFO instructions documents
229.5	2022-07-13	Withdrawal of element Effort_detail.Grid_id so: <ul style="list-style-type: none"> - Withdrawal of this element from rule #420 - New version of the DFO instructions to reflect this change, so, update of rule #2500. Modification of the text of the "Data transmission" section.
229.6	2024-02-28	<ul style="list-style-type: none"> - Withdrawal of Rule #615 - Rule #825: correction from Appendix C to Appendix B

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 – Shrimp (excluding offshores), version 229).

5.1 Data transmission

See section “Data transmission” of document “Standard for development of electronic logbook client applications” that can be found on the DFO Extranet site for **Developers ([Documents for developers \(Toolbox\)](#))**.

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 Shrimp fleets, excluding offshores.

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
1509	GEAR_INFO
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
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: - Must contain at least one occurrence of the node Bait_used
1030	Gear_info	If this data group is used: - Must contain at least one occurrence of the node Gear_info
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
1035	Transfer	If this data group is used: - Must contain at least one occurrence of the node Transfer
1018	(All data groups)	If a data group is not required by DFO or not used by the harvester, it should not appear in 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).
2010	EFFORT (nodes EFFORT and TGT_SPECIES)	Only one occurrence of the node Tgt_species is allowed in an occurrence of the node EFFORT.

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</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_229.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>
601	HLIN PCONS SAR BAIT_USED GEAR_INFO EFFORT LANDING TRANSFER	DG_CLOSE_DT	<p>The date and time of data group closure (<i>node.Dg_close_dt</i>) must be between the trip start date and time (Trip.Start_dt) and the current date and time (UTC).</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.																		
	PCONS	WT																			
	EFFORT	NB_DAYS_FSH																			
	CATCH	NB_SPCMN_KEPT NB_SPCMN_DISC KEPT_WT DISC_WT																			
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.																		
	TRIP	OBS_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>229</td><td>ELOG - Logbook - Shrimp</td></tr></table> Ref table : Mv_form_version	<u>Form version id</u>	<u>Description</u>	229	ELOG - Logbook - Shrimp														
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229	ELOG - Logbook - Shrimp																				
609	GENERAL_INFO	SUBFORM_ID	Only this value must be available and considered valid: <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>1</td><td>GLF - Shrimp</td></tr><tr><td>2</td><td>MAR - Shrimp - Mobile Gear</td></tr><tr><td>3</td><td>MAR - Shrimp - Trap</td></tr><tr><td>4</td><td>PAC - Euphausiid</td></tr><tr><td>5</td><td>PAC - Prawn and Shrimp - Trap</td></tr><tr><td>6</td><td>PAC - Shrimp - Trawl</td></tr><tr><td>7</td><td>QC - Shrimp</td></tr><tr><td>8</td><td>NL - Shrimp - General Fishing Log</td></tr></table> Ref table : Mv_subforms	<u>Subform_id</u>	<u>Description</u>	1	GLF - Shrimp	2	MAR - Shrimp - Mobile Gear	3	MAR - Shrimp - Trap	4	PAC - Euphausiid	5	PAC - Prawn and Shrimp - Trap	6	PAC - Shrimp - Trawl	7	QC - Shrimp	8	NL - Shrimp - General Fishing Log
<u>Subform_id</u>	<u>Description</u>																				
1	GLF - Shrimp																				
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7	QC - Shrimp																				
8	NL - Shrimp - General Fishing Log																				

General rules – restrictions on data elements															
Rule No.	Node(s)	Element(s)	Rule												
2	GENERAL_INFO	REG_ID	<p>Only this value must be available and considered valid:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>1014</td><td>Gulf</td></tr><tr><td>1004</td><td>Maritimes</td></tr><tr><td>1002</td><td>Newfoundland</td></tr><tr><td>1006</td><td>Quebec</td></tr><tr><td>1010</td><td>Pacific</td></tr></table> <p>Ref table : Mv_dfo_region</p>	Code_id	Description	1014	Gulf	1004	Maritimes	1002	Newfoundland	1006	Quebec	1010	Pacific
Code_id	Description														
1014	Gulf														
1004	Maritimes														
1002	Newfoundland														
1006	Quebec														
1010	Pacific														
931	GENERAL_INFO	FIN (label)	<p>In the client application, all labels associated to element General_info.Fin must always be:</p> <p>In French: « NIP du <u>détenteur de permis</u> » In English: « <u>Licence holder's</u> FIN »</p>												
260	GENERAL_INFO	FIN	<p>The Fisher Identification Number (General_info.Fin) must be made up of either :</p> <ul style="list-style-type: none">- Nine digits (e.g.: 999999999)- One digit then one uppercase letter then seven digits (e.g.: 9D9999999). The letter must be C or D.- Five digits (e.g.: 99999)- Six digits (e.g.: 999999) .												
265	TRIP	START_DT	<p>The trip start date and time (Trip.Start_dt) (UTC) cannot be later than the current UTC date and time plus 6 hours.</p>												
48	TRIP	TRIP_NUM	<p>A new trip number (Trip.Trip_num) must be allocated automatically and sequentially for each new fishing trip.</p>												
181	TRIP	LGBK_UID	<p>The logbook unique identifier must be made up of six uppercase letters (A-Z) randomly generated.</p> <p>If possible, make sure the logbook unique identifier has never been used before by any of your clients.</p>												
11	SAR	SAR_DT	<p>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).</p>												
	TRIP	START_DT													
12	SAR	SAR_DT	<p>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.</p>												

General rules – restrictions on data elements																													
Rule No.	Node(s)	Element(s)	Rule																										
613	SAR	LAT	These latitudes must be greater than or equal to 40.0000 (deg) and less than or equal to 70.0000 (deg).																										
	EFFORT_DETAIL	LAT START_LAT END_LAT																											
614	SAR	LONG	These longitudes must be greater than or equal to -165.0000 (deg) and less than or equal to -35.0000 (deg).																										
	EFFORT_DETAIL	LONG START_LONG END_LONG																											
27	HLIN	HLIN_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>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></tbody></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.
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39494	Ocean Catch Monitoring Inc.																												
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></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																
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General rules – restrictions on data elements																					
Rule No.	Node(s)	Element(s)	Rule																		
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>Table de référence : Mv_Service_provider</p>																		
610	GEAR_INFO	TRAP_SUBTYP_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>37991</td><td>Shrimp trap - 2 rings frame, cone nesting</td></tr><tr><td>37993</td><td>Shrimp trap - 3 rings frame, cone nesting</td></tr><tr><td>37995</td><td>Shrimp trap - 4 rings frame, cone nesting</td></tr><tr><td>37997</td><td>Shrimp trap - Circular, non-nesting</td></tr><tr><td>37999</td><td>Shrimp trap - Collapsable oval, round or rectangular</td></tr><tr><td>38001</td><td>Shrimp trap - Plastic bucket, round or rectangular</td></tr><tr><td>38003</td><td>Shrimp trap - Wire mesh, square or rectangular</td></tr><tr><td>39620</td><td>Other</td></tr></tbody></table> <p>Ref table : Mv_trap_subtype</p>	<u>Code id</u>	<u>Description</u>	37991	Shrimp trap - 2 rings frame, cone nesting	37993	Shrimp trap - 3 rings frame, cone nesting	37995	Shrimp trap - 4 rings frame, cone nesting	37997	Shrimp trap - Circular, non-nesting	37999	Shrimp trap - Collapsable oval, round or rectangular	38001	Shrimp trap - Plastic bucket, round or rectangular	38003	Shrimp trap - Wire mesh, square or rectangular	39620	Other
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38001	Shrimp trap - Plastic bucket, round or rectangular																				
38003	Shrimp trap - Wire mesh, square or rectangular																				
39620	Other																				
611a	GEAR_INFO	TRAP_SUBTYP_ID	<p>If the trap subtype is “Other” (Gear_info.Trap_subtyp_id=39620), then change the English description displayed from “Other” to “Other (describe in comment area)”</p>																		
611b	GEAR_INFO	TRAP_SUBTYP_ID	<p>If the trap subtype is “Others” (Gear_info.Trap_subtyp_id=39620), then change the French description displayed from “Autre” to “Autre (décrire dans la zone commentaire)”</p>																		

General rules – restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
962	GEAR_INFO	GEAR_BTM_DIA GEAR_TOP_DIA vs GEAR_LEN GEAR_WDTH	<p>The size of the fishing gear must be expressed either using diameters (Gear_btm_dia and Gear_top_dia) or length/width (Gear_len and Gear_wdth), <u>not both</u>.</p> <p>Both elements (Gear_btm_dia and Gear_top_dia) must contain a value or both be empties.</p> <p>Both elements (Gear_len and Gear_wdth) must contain a value or both be empties.</p> <p>It is mandatory to enter either the diameters or the length and width of the fishing gear.</p>										
153	PCONS	SPECIE_FRM_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>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											
CATCH	SPECIE_FRM_ID												
CATCH_DTL	SPECIE_FRM_ID												
825	PCONS	SPECIE_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>1</td><td>GLF - Shrimp</td></tr><tr><td>3</td><td>MAR - Shrimp - Trap</td></tr><tr><td>7</td><td>QC - Shrimp</td></tr><tr><td>8</td><td>NL - Shrimp - General Fishing Log</td></tr></table> <p>Only these species must be available and considered valid for the sub-form:</p> <p>(see Appendix B – List of species that can be declared in nodes CATCH or PCONS, per sub-forms)</p> <p>Ref table: Mv_species, Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	1	GLF - Shrimp	3	MAR - Shrimp - Trap	7	QC - Shrimp	8	NL - Shrimp - General Fishing Log
	<u>Subform_id</u>	<u>Description</u>											
1	GLF - Shrimp												
3	MAR - Shrimp - Trap												
7	QC - Shrimp												
8	NL - Shrimp - General Fishing Log												
GENERAL_INFO	SUBFORM_ID												
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 rules – restrictions on data elements																																																			
Rule No.	Node(s)	Element(s)	Rule																																																
131	EFFORT	FMA_ID	Only these values must be available and considered valid: <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>39479</td><td>Shrimp Fishing Area 0</td></tr><tr><td>39495</td><td>Shrimp Fishing Area 01</td></tr><tr><td>1614</td><td>Shrimp Fishing Area 02</td></tr><tr><td>1615</td><td>Shrimp Fishing Area 03</td></tr><tr><td>39496</td><td>Shrimp Fishing Area 04</td></tr><tr><td>39497</td><td>Shrimp Fishing Area 05</td></tr><tr><td>39498</td><td>Shrimp Fishing Area 06</td></tr><tr><td>39499</td><td>Shrimp Fishing Area 07</td></tr><tr><td>39486</td><td>Shrimp Fishing Area 08 (Esquiman)</td></tr><tr><td>39487</td><td>Shrimp Fishing Area 09 (Anticosti)</td></tr><tr><td>39488</td><td>Shrimp Fishing Area 10 (Sept-Iles)</td></tr><tr><td>1622</td><td>Shrimp Fishing Area 11</td></tr><tr><td>39489</td><td>Shrimp Fishing Area 12 (Estuary)</td></tr><tr><td>1624</td><td>Shrimp Fishing Area 13</td></tr><tr><td>1625</td><td>Shrimp Fishing Area 14</td></tr><tr><td>1626</td><td>Shrimp Fishing Area 15</td></tr><tr><td>1627</td><td>Shrimp Fishing Area 16</td></tr><tr><td>39480</td><td>Shrimp Management Unit Davis Strait-East</td></tr><tr><td>39481</td><td>Shrimp Management Unit Davis Strait-West</td></tr><tr><td>39482</td><td>Shrimp Management Unit Nunavik-East</td></tr><tr><td>39483</td><td>Shrimp Management Unit Nunavik-West</td></tr><tr><td>39484</td><td>Shrimp Management Unit Nunavut-East</td></tr><tr><td>39485</td><td>Shrimp Management Unit Nunavut-West</td></tr></table> Ref table: Mv_fma	<u>Code_id</u>	<u>Description</u>	39479	Shrimp Fishing Area 0	39495	Shrimp Fishing Area 01	1614	Shrimp Fishing Area 02	1615	Shrimp Fishing Area 03	39496	Shrimp Fishing Area 04	39497	Shrimp Fishing Area 05	39498	Shrimp Fishing Area 06	39499	Shrimp Fishing Area 07	39486	Shrimp Fishing Area 08 (Esquiman)	39487	Shrimp Fishing Area 09 (Anticosti)	39488	Shrimp Fishing Area 10 (Sept-Iles)	1622	Shrimp Fishing Area 11	39489	Shrimp Fishing Area 12 (Estuary)	1624	Shrimp Fishing Area 13	1625	Shrimp Fishing Area 14	1626	Shrimp Fishing Area 15	1627	Shrimp Fishing Area 16	39480	Shrimp Management Unit Davis Strait-East	39481	Shrimp Management Unit Davis Strait-West	39482	Shrimp Management Unit Nunavik-East	39483	Shrimp Management Unit Nunavik-West	39484	Shrimp Management Unit Nunavut-East	39485	Shrimp Management Unit Nunavut-West
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	EFFORT_DETAIL	START_FMA_ID END_FMA_ID																																																	
603	EFFORT	SAR_IND	The label of this element must be: <u>French:</u> Y a-t-il eu interaction avec une espèce en péril durant cet effort de pêche? <u>English:</u> Was there any interaction with a species at risk during this fishing effort?																																																

General rules – restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
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>
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>																																										
826	GENERAL_INFO	SUBFORM_ID	<p>Only these targeted species must be available and considered valid for the sub-form:</p> <p>(see <u>Appendix A – List of valid targeted species per sub-form</u>)</p> <p>Ref table: Mv_species, Mv_subforms</p>																																										
	TGT_SPECIES	SPECIE_ID																																											
35	EFFORT_BY_GEAR	GEAR_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>25243</td><td>Bottom beam trawls</td></tr><tr><td>876</td><td>Bottom otter trawl</td></tr><tr><td>883</td><td>Bottom pair trawl</td></tr><tr><td>25245</td><td>Bottom shrimp trawls</td></tr><tr><td>25242</td><td>Bottom trawls</td></tr><tr><td>884</td><td>Midwater pair trawl</td></tr><tr><td>879</td><td>Midwater trawl (unspecified)</td></tr><tr><td>25248</td><td>Midwater shrimp trawls</td></tr><tr><td>887</td><td>Modified shrimp midwater trawl</td></tr><tr><td>3996</td><td>Otter twin trawls</td></tr><tr><td>25249</td><td>Pair trawls (not specified)</td></tr><tr><td>885</td><td>Semi/midwater pelagic trawl</td></tr><tr><td>10583</td><td>Shrimp beam trawl</td></tr><tr><td>3400</td><td>Plankton Trawl</td></tr><tr><td>886</td><td>Shrimp trawl</td></tr><tr><td>1089</td><td>Trawls</td></tr><tr><td>888</td><td>Danish seine</td></tr><tr><td>897</td><td>Pair seine</td></tr><tr><td>889</td><td>Scottish seine</td></tr><tr><td>925</td><td>Pot</td></tr></tbody></table>	<u>Code_id</u>	<u>Description</u>	25243	Bottom beam trawls	876	Bottom otter trawl	883	Bottom pair trawl	25245	Bottom shrimp trawls	25242	Bottom trawls	884	Midwater pair trawl	879	Midwater trawl (unspecified)	25248	Midwater shrimp trawls	887	Modified shrimp midwater trawl	3996	Otter twin trawls	25249	Pair trawls (not specified)	885	Semi/midwater pelagic trawl	10583	Shrimp beam trawl	3400	Plankton Trawl	886	Shrimp trawl	1089	Trawls	888	Danish seine	897	Pair seine	889	Scottish seine	925	Pot
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General rules – restrictions on data elements																																																									
Rule No.	Node(s)	Element(s)	Rule																																																						
			39620 Other Ref table: Mv_gear_description																																																						
727	EFFORT_BY_GEAR	GEAR_ID (description)	If the gear code (EFFORT_BY_GEAR.GEAR_ID) is 925, then the English description of the gear displayed by the client application must be “Pot/Trap” instead of “Pot”. Ref table : Mv_gear_description																																																						
612a	EFFORT_BY_GEAR	GEAR_ID GEAR_SBTYP_ID	When the fishing gear selected (Effort_by_gear.Gear_id) is one of: <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>25243</td><td>Bottom beam trawls</td></tr><tr><td>876</td><td>Bottom otter trawl</td></tr><tr><td>883</td><td>Bottom pair trawl</td></tr><tr><td>25245</td><td>Bottom shrimp trawls</td></tr><tr><td>25242</td><td>Bottom trawls</td></tr><tr><td>884</td><td>Midwater pair trawl</td></tr><tr><td>879</td><td>Midwater trawl (unspecified)</td></tr><tr><td>25248</td><td>Midwater shrimp trawls</td></tr><tr><td>887</td><td>Modified shrimp midwater trawl</td></tr><tr><td>3996</td><td>Otter twin trawls</td></tr><tr><td>25249</td><td>Pair trawls (not specified)</td></tr><tr><td>885</td><td>Semi/midwater pelagic trawl</td></tr><tr><td>10583</td><td>Shrimp beam trawl</td></tr><tr><td>3400</td><td>Plankton Trawl</td></tr><tr><td>886</td><td>Shrimp trawl</td></tr><tr><td>1089</td><td>Trawls</td></tr></table> Then only these gear subtypes (Effort_by_gear.Gear_sbttyp_id) must be available and considered valid: <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>38341</td><td>Shrimp trawl - Doors (otter) with unknown net type</td></tr><tr><td>38342</td><td>Shrimp trawl - Doors (otter) with flat net</td></tr><tr><td>38343</td><td>Shrimp trawl - Doors with high-lift net</td></tr><tr><td>38344</td><td>Shrimp trawl - Doors with semi-balloon net</td></tr><tr><td>38345</td><td>Shrimp trawl - Post beam with unknown net type</td></tr><tr><td>38346</td><td>Shrimp trawl - Post beam with flat net</td></tr><tr><td>38347</td><td>Shrimp trawl - Post beam with high-lift net</td></tr><tr><td>38348</td><td>Shrimp trawl - Post beam with semi-balloon net</td></tr><tr><td>38349</td><td>Shrimp trawl - Sled beam with flat net</td></tr></table>	<u>Code_id</u>	<u>Description</u>	25243	Bottom beam trawls	876	Bottom otter trawl	883	Bottom pair trawl	25245	Bottom shrimp trawls	25242	Bottom trawls	884	Midwater pair trawl	879	Midwater trawl (unspecified)	25248	Midwater shrimp trawls	887	Modified shrimp midwater trawl	3996	Otter twin trawls	25249	Pair trawls (not specified)	885	Semi/midwater pelagic trawl	10583	Shrimp beam trawl	3400	Plankton Trawl	886	Shrimp trawl	1089	Trawls	<u>Code_id</u>	<u>Description</u>	38341	Shrimp trawl - Doors (otter) with unknown net type	38342	Shrimp trawl - Doors (otter) with flat net	38343	Shrimp trawl - Doors with high-lift net	38344	Shrimp trawl - Doors with semi-balloon net	38345	Shrimp trawl - Post beam with unknown net type	38346	Shrimp trawl - Post beam with flat net	38347	Shrimp trawl - Post beam with high-lift net	38348	Shrimp trawl - Post beam with semi-balloon net	38349	Shrimp trawl - Sled beam with flat net
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General rules – restrictions on data elements															
Rule No.	Node(s)	Element(s)	Rule												
			38350 Shrimp trawl - Sled beam with high-lift net 38351 Shrimp trawl - Sled beam with semi-balloon net Ref table : Mv_gear_description, Mv_gear_subtype												
612b	EFFORT_BY_GEAR	GEAR_ID GEAR_SBTYP_ID	When the fishing gear selected (Effort_by_gear.Gear_id) is one of: <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>888</td><td>Danish seine</td></tr><tr><td>897</td><td>Pair seine</td></tr><tr><td>889</td><td>Scottish seine</td></tr><tr><td>925</td><td>Pot</td></tr><tr><td>39620</td><td>Other</td></tr></table> Then the entry of the gear subtypes (Effort_by_gear.Gear_sbtyp_id) must be blocked. Ref table : Mv_gear_description, Mv_gear_subtype	<u>Code_id</u>	<u>Description</u>	888	Danish seine	897	Pair seine	889	Scottish seine	925	Pot	39620	Other
<u>Code_id</u>	<u>Description</u>														
888	Danish seine														
897	Pair seine														
889	Scottish seine														
925	Pot														
39620	Other														
963	GENERAL_INFO	SUBFORM_ID	When the sub-form selected is “PAC - Shrimp - Trawl” (General_info.Subform_id=6) and the fishing gear (Effort_by_gear.Gear_id) in one of those listed in rule #612a, then the entry of these elements is mandatory: Effort_by_gear.Gear_sbtyp_id Effort_by_gear.Sel_dev_id Effort_by_gear.Hrope_len Effort_by_gear.Frope_len Effort_by_gear.Rise_net Ref table : Mv_subform, Mv_gear_description, Mv_gear_subtype,Mv_gear_selectivity_device												
	EFFORT_BY_GEAR	GEAR_ID GEAR_SBTYP_ID SEL_DEV_ID HROPE_LEN FROPE_LEN RISE_NET													
615	EFFORT_DETAIL	TOW_NUM NB_TOWS	When sub-form is “NL - Shrimp - General Fishing Log” (General_info.Subform_id=8), either the tow number (Effort_detail.Tow_num) or the number of tows (Effort_detail.Nb_tows) must contain a value. Not both.												

General rules – restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
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											
420	EFFORT_DETAIL	START_GRID_ID	Only the grids from map #1 are authorized. Therefore, only codes (Mv_grid.code_id) of grids having the first character of the French description (Mv_grid.desc_fre) equal to “1” are authorized. (e.g. 1GL24) Ref table: MV_GRID										
616	EFFORT_DETAIL	MIN_GR_DPTH MAX_GR_DPTH AVG_GR_DPTH	The depth must be greater or equal than 0 and less than 5000 meters.										
47	EFFORT_DETAIL	AVG_TOW_SPD	When captured, the average tow speed must be greater than 0 and less than 10 knots										
617	CATCH	SPECIE_ID NB_SPCMN_KEPT NB_SPCMN_DISC	When sub-form is “PAC - Prawn and Shrimp – Trap” (General_info.Subform_id=5) and species caught (Catch.Specie_id) is NOT one of: <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>1320</td><td>Octopus (Octopoda)</td></tr><tr><td>15537</td><td>Octopus, Giant Pacific</td></tr><tr><td>17087</td><td>Octopus (OCTOPUS)</td></tr><tr><td>17089</td><td>Octopus, Pacific Red</td></tr></table> Then the capture of the number of specimen kept (Catch.Nb_spcmn_kept) and the capture of the number of specimen discarded (Catch.nb_spcmn_disc) must be blocked. Ref table: Mv_species, Mv_subforms	Code_id	Description	1320	Octopus (Octopoda)	15537	Octopus, Giant Pacific	17087	Octopus (OCTOPUS)	17089	Octopus, Pacific Red
	Code_id	Description											
1320	Octopus (Octopoda)												
15537	Octopus, Giant Pacific												
17087	Octopus (OCTOPUS)												
17089	Octopus, Pacific Red												
GENERAL_INFO	SUBFORM_ID												
836	GENERAL_INFO	SUBFORM_ID	Only these species must be available and considered valid for the sub-form: (see <u>Appendix B – List of species that can be declared in nodes CATCH or PCONS, per sub-forms</u>) Ref table: Mv_species, Mv_subforms										
	CATCH	SPECIE_ID											

General rules – restrictions on data elements															
Rule No.	Node(s)	Element(s)	Rule												
964	CATCH	SPECIE_ID	If the species caught IS NOT Prawn (Catch.Specie_id <> 3394) then all elements of node Catch_dtl must be blocked. Ref table: Mv_species												
	CATCH_DTL	SPCMN_SZ_ID SPCMN_FRM_ID WT REM													
965	CATCH_DTL	SPCMN_SZ_ID	Only these specimen sizes (Catch_dtl.Spcmn_sz_id) must be available and considered valid: <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>827</td><td>Medium</td></tr><tr><td>828</td><td>Large</td></tr><tr><td>829</td><td>Extra Large</td></tr><tr><td>10891</td><td>Jumbo</td></tr><tr><td>38005</td><td>Super Jumbo</td></tr></table> Ref table: Mv_species_size	<u>Code_id</u>	<u>Description</u>	827	Medium	828	Large	829	Extra Large	10891	Jumbo	38005	Super Jumbo
<u>Code_id</u>	<u>Description</u>														
827	Medium														
828	Large														
829	Extra Large														
10891	Jumbo														
38005	Super Jumbo														
442	LANDING	ARR_DT	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).												
	TRIP	START_DT													
246	LANDING	ARR_DT	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).												
	EFFORT	END_DT													
45	LANDING	START_DT	The landing date and time (Landing.Start_dt) must be later than or equal to the trip start date (Trip.Start_dt).												
	TRIP	START_DT													
46	LANDING	START_DT	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).												
	EFFORT	END_DT													
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).												

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_229-1.2_eng.pdf (English version) DFO instructions_NAT_229-1.2_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	
1 - GLF - Shrimp	1274	Shrimp, Pandalus borealis
2 - MAR - Shrimp - Mobile Gear	1317	Shrimp, Pandalus montagui
3 - MAR - Shrimp - Trap	1351	Shrimp, Other
7 - QC - Shrimp		
8 - NL - Shrimp - General Fishing Log		
4 - PAC - Euphausiid	15676	Krill, Pacific
5 - PAC - Prawn and Shrimp - Trap	4521	Shrimp, Humpback (PANDALUS HYPsinotus)
	16841	Shrimp, Coonstripe
	3394	Prawn
6 - PAC - Shrimp - Trawl	3394	Prawn
	1274	Shrimp, Pandalus borealis
	4521	Shrimp, Humpback (PANDALUS HYPsinotus)
	16840	Shrimp, Sidestripe
	16841	Shrimp, Coonstripe
	1967	Shrimp, Pink Glass
	16842	Shrimp, Pink (Flexed)
	16844	Shrimp, Pink (Smooth)

Ref tables: Mv_subforms, Mv_species

Appendix B – List of species that can be declared in nodes CATCH or PCONS, 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 and PCONS so, only these species must be available and considered valid for the sub-form:

Species that can be selected/reported in sections catch (CATCH) or personal consumption (PCONS), per sub-forms	
General_info.Subform_id – Sub-form name	Catch.Specie_id – Species name Pcons.Specie_id – Species name
1 - GLF - Shrimp	1277 Capelin
2 - MAR - Shrimp - Mobile Gear	1269 Cod, Arctic
3 - MAR - Shrimp - Trap	1284 Cod, Atlantic
7 - QC - Shrimp	15210 Codfishes
8 - NL - Shrimp - General Fishing Log	1288 Crab, Queen Snow
	1903 Dogfish, Black
	18554 Dogfishes unspecified
	1298 Flounder, Winter
	1373 Flounder, Witch
	1330 Grenadier, Roughhead
	1301 Grenadiers
	808 Groundfish
	1309 Hake, White
	1304 Halibut, Atlantic
	1300 Halibut, Greenland
	3392 Herring, Atlantic
	1312 Lobster
	1325 Plaice, American
	18398 Redfishes
	14714 Sculpins (COTTIDAE)
	1335 Shark, Basking
	1344 Shark, Greenland
	1352 Shark, unspecified
	1274 Shrimp, Pandalus borealis
	1317 Shrimp, Pandalus montagui
	1967 Shrimp, Pink Glass
	1351 Shrimp, Other
	1353 Skates
	1367 Tomcod, Atlantic
	1987 Windowpane
	1377 Wolffish, Unspecified
	814 Other
4 - PAC - Euphausiid	15676 Krill, Pacific

Species that can be selected/reported in sections catch (CATCH) or personal consumption (PCONS), per sub-forms		
General_info.Subform_id – Sub-form name	Catch.Specie_id – Species name	Pcons.Specie_id – Species name
5 - PAC - Prawn/Shrimp - Trap	4521	Shrimp, Humpback (PANDALUS HYPsinotus)
	16841	Shrimp, Coonstripe
	3394	Prawn
	1320	Octopus (Octopoda)
	15537	Octopus, Giant Pacific
	17087	Octopus (OCTOPUS)
	17089	Octopus, Pacific Red
	814	Other
6 - PAC - Shrimp - Trawl	3394	Prawn
	1274	Shrimp, Pandalus borealis
	4521	Shrimp, Humpback (PANDALUS HYPsinotus)
	16840	Shrimp, Sidestripe
	16841	Shrimp, Coonstripe
	1967	Shrimp, Pink Glass
	16842	Shrimp, Pink (Flexed)
	16844	Shrimp, Pink (Smooth)
	1351	Shrimp, Other
	15893	Ratfish, Spotted
	16640	Crabs, Lithodio
	4535	Sole, Dover
	1320	Octopus (Octopoda)
	15537	Octopus, Giant Pacific
	17087	Octopus (OCTOPUS)
	17089	Octopus, Pacific Red
	1299	Flatfishes, not specified
	18266	Squid, Pacific Bobtail
	19014	Squids
	3368	Eulachon
	814	Other