



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Fact sheet

ELOG - Logbook - Crabs

All DFO Regions

(FS-NAT-235-5-EN)

June 12, 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 form<sup>1</sup>. 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 form<sup>1</sup> (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 form<sup>1</sup> and sub-forms will be verified during the client application qualification process (see document “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 - Crabs	235

## 3. Fact sheet validity date

Version	Valid since	Expiry date
235.1	2022-08-03	2022-10-27
235.2	2022-10-28	2023-03-22
235.3	2023-03-23	2024-02-27
235.4	2024-02-28	2024-06-11
235.5	2024-06-12	

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<sup>1</sup> See document 39736.235.NATIONAL - ELOG - Logbook - Crabs - JBE - Journal de bord - Crabes.csv

## 4. Change history

Version	Date	Description of change
235.1	2022-08-03	Creation of version 235.1  This form replace the Crabs forms previously developed (Form_version_id 225).The goal of this new version is to integrate the concept of “sub-forms”. Changes are indicated in red in this document.
235.2	2022-10-28	<ul style="list-style-type: none"><li>- Rule #983b : Correction of the text of the rule (boundaries were inverted)</li><li>- Rule #989b : Correction of the text of the rule (boundaries were inverted)</li></ul>
235.3	2023-03-23	<ul style="list-style-type: none"><li>- Rule #2039: Inclusion of sub-form #97 in this rule</li><li>- Rule #2040: Inclusion of sub-form #97 in this rule</li></ul>
235.4	2024-02-28	<ul style="list-style-type: none"><li>- Rule #3005b: Clarification for Green Crab</li><li>- Rule #3004b: Addition of species 1290 (Crab, spider) &amp; description correction for species 814</li><li>- Rule #3007: Clarification of wording in Exceptions</li></ul>
235.5	2024-06-12	<ul style="list-style-type: none"><li>- Corrected rule number for GEAR_GRP_NUM from 609 to 609x</li><li>- Corrected French “Table de référence :” text to English in Rules #663, 772, 773 in English Fact Sheet document only</li><li>- Added GEAR_INFO node to Rule #601</li></ul>

## 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 - Crabs, version 235).

### 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 crab 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

Rule No.	Data group
1507	HLOUT
1503	SAR
1505	PCONS
1512	BAIT_USED
1509	GEAR_INFO
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: - Must contain at least one occurrence of the node Bait_used
1029	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
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
2023	GEAR_INFO	The data group GEAR_INFO will be completed and transmitted only by Pacific fishers, once a year or when the gears used change. There is no need to include this information in each logbook (XML file).
2000	EFFORT (nodes EFFORT_DETAIL and CATCH)	The combination “species identifier (Catch.Specie_id) and species form identifier (Catch.Specie_frm_id)” must be represented only one time in all child CATCH nodes located inside an EFFORT_DETAIL node. The same combination must not be found in another occurrence of node CATCH within the same EFFORT_DETAIL node.
2020	EFFORT (nodes 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 has been 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.
2011	LANDING	There must be at least one occurrence of the data group LANDING for each fishing trip/logbook.  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.
2039	(nodes EFFORT_BY_GEAR and EBG_FSH_METH)	When the selected sub-form is “PAC - Crabs - Traps (Pots and square net)” or “PAC - Crabs - Hands and Hand tools” (General_info.Subform_id=96 or General_info.Subform_id=97 ) and the fishing gear used is « Pot » (Effort_by_gear.Gear_id=925) then, this occurrence of node EFFORT_BY_GEAR must contain at least one node EBG_FSH_METH. Otherwise, the use of node EBG_FSH_METH must be blocked and the EFFORT_BY_GEAR nodes will not contain any occurrence of node EBG_FSH_METH.
2040	EFFORT (nodes EFFORT_BY_GEAR and EBG_BT_FSTNRS)	When the selected sub-form is “PAC - Crabs - Traps (Pots and square net)” or “PAC - Crabs - Hands and Hand tools” (General_info.Subform_id=96 or General_info.Subform_id=97 ) and the fishing gear used is « Pot » (Effort_by_gear.Gear_id=925) then, this occurrence of node EFFORT_BY_GEAR must contain at least one node EBG_BT_FSTNRS. Otherwise, the use of node EBG_BT_FSTNRS must be blocked and the EFFORT_BY_GEAR nodes will not contain any occurrence of node EBG_BT_FSTNRS.

#### 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
<b>608</b>	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_235.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>
<b>601</b>	BAIT_USED <b>GEAR_INFO</b> HLIN PCONS SAR EFFORT LANDING	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														
1	GENERAL_INFO	FORM_VER_ID	<p>Only this value must be available and considered valid:</p> <table><tr><th><u>Form_version_id</u></th><th><u>Description</u></th></tr><tr><td>235</td><td>ELOG - Logbook - Crabs</td></tr></table> <p>Ref table: Mv_form_version</p>	<u>Form_version_id</u>	<u>Description</u>	235	ELOG - Logbook - Crabs										
<u>Form_version_id</u>	<u>Description</u>																
235	ELOG - Logbook - Crabs																
609	GENERAL_INFO	SUBFORM_ID	<p>Only these sub-forms must be available and considered valid:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> <p>Ref table: Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools
<u>Subform_id</u>	<u>Description</u>																
92	QC - Crabs																
93	GLF - Crabs																
94	MAR - Crabs																
95	NL - Crabs																
96	PAC - Crabs - Traps (Pots and square net)																
97	PAC - Crabs - Hands and Hand tools																
985	GENERAL_INFO	SUBFORM_ID REG_ID	<p>Only these DFO administrative regions must be available and considered valid for the sub-form:</p> <p>(see <u>Appendix G - List of valid administrative regions per sub-form</u>)</p> <p>Ref tables: Mv_dfo_region, Mv_subforms</p>														
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: « Licence holder's FIN »</p>														

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
981a	GENERAL_INFO	SUBFORM_ID FIN	<p>If the selected sub-form (General_info.Subform_id) is one of:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> <p>then the Fisher Identification Number (General_info.Fin) must be made up of :</p> <ul style="list-style-type: none"><li>- Nine digits (e.g.: 999999999) or</li><li>- One digit then one uppercase letter then seven digits (e.g.: 9D9999999). The letter must be C or D.</li></ul> <p>Ref table: Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs
<u>Subform_id</u>	<u>Description</u>												
92	QC - Crabs												
93	GLF - Crabs												
94	MAR - Crabs												
95	NL - Crabs												
981b	GENERAL_INFO	SUBFORM_ID FIN	<p>If the selected sub-form (General_info.Subform_id) is one of:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> <p>Then the Fisher Identification Number (General_info.Fin) must be made up of :</p> <ul style="list-style-type: none"><li>- Five digits (e.g.: 99999) or</li><li>- Six digits (e.g.: 999999) .</li></ul> <p>Ref table: Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools				
<u>Subform_id</u>	<u>Description</u>												
96	PAC - Crabs - Traps (Pots and square net)												
97	PAC - Crabs - Hands and Hand tools												
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.										
3	TRIP	START_DT	The start date and time of the trip (Trip.Start_dt) cannot take place after the effort start date and time (Effort.Start_dt) of any of the efforts of this trip.										
	EFFORT	START_DT											
48	TRIP	TRIP_NUM	A new trip number (Trip.Trip_num) must be allocated automatically and sequentially for each new fishing trip.										

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
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.
444	TRIP	CREW_NB	The number of crew member (Trip.Crew_nb) must be between 1 and 10.
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	
602	TRIP	OBS_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.  Ref table: Mv_response
	EFFORT	SAR_IND MM_INTER_IND LOST_GEAR_IND	
	EFFORT_DETAIL	BT_PRTC_IND	
789	BAIT_USED	BT_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.
	SAR	WT NB_SPCMN	
	PCONS	WT	
	CATCH	KEPT_WT DISC_WT NB_SPCMN_KEPT NB_SPCMN_DISC	
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.

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
982a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table>  Then the latitude (Sar.Lat) must be greater than or equal to 38.0000 (deg) and less than or equal to 61.0000 (deg)  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs
	<u>Subform_id</u>	<u>Description</u>											
92	QC - Crabs												
93	GLF - Crabs												
94	MAR - Crabs												
95	NL - Crabs												
SAR	LAT												
983a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table>  Then the longitude (Sar.Long) must be greater than or equal to -78.0000 (deg) and less than or equal to -40.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs
	<u>Subform_id</u>	<u>Description</u>											
92	QC - Crabs												
93	GLF - Crabs												
94	MAR - Crabs												
95	NL - Crabs												
SAR	LONG												
982b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table>  Then the latitude (Sar.Lat) must be greater than or equal to 48.0000 (deg) and less than or equal to 57.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools				
	<u>Subform_id</u>	<u>Description</u>											
96	PAC - Crabs - Traps (Pots and square net)												
97	PAC - Crabs - Hands and Hand tools												
SAR	LAT												

General rules - restrictions on data elements																													
Rule No.	Node(s)	Element(s)	Rule																										
983b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> Then the longitude (Sar.Long) must be greater than or equal to -140.0000 (deg) and less than or equal to -122.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools																				
	<u>Subform_id</u>	<u>Description</u>																											
96	PAC - Crabs - Traps (Pots and square net)																												
97	PAC - Crabs - Hands and Hand tools																												
SAR	LONG																												
7	SAR	SPECIE_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>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> Ref table: Mv_sar_list	<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												
<u>Code_id</u>	<u>Description</u>																												
1363	Bass, Striped																												
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10561	Turtle, Leatherback Sea																												
4561	Turtle, Loggerhead Sea																												
1375	Wolffish, Northern																												
1382	Wolffish, Spotted																												
27	HLIN	HLIN_CIE_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>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></table> Ref table: Mv_service_provider	<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.
<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.																												

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
93	HLOUT	HLOUT_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>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></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
<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												
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>										
705	BAIT_USED	BT_TYP_ID	<p>Exclude the following items from the list of bait type that can be selected:</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>38503</td><td>Waste</td></tr></table> <p>Ref table: Mv_bait_type</p>	<u>Code_id</u>	<u>Description</u>	38503	Waste						
<u>Code_id</u>	<u>Description</u>												
38503	Waste												

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
984	GENERAL_INFO	SUBFORM_ID	<p>If the selected sub-form (General_info.Subform_id) is one of:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> <p>...and the selected bait type (Bait_used.Bt_typ_id) is one of :</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>3392</td><td>Herring, Atlantic</td></tr><tr><td>1315</td><td>Mackerel, Atlantic</td></tr></table> <p>Then the capture of the bait condition (Bait_used.Bt_cond_id) is mandatory. Otherwise, the capture of the bait condition (Bait_used.Bt_cond_id) must be blocked.</p> <p>Ref tables: Mv_subforms, Mv_bait_type, Mv_bait_condition</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	3392	Herring, Atlantic	1315	Mackerel, Atlantic
	<u>Subform_id</u>	<u>Description</u>											
92	QC - Crabs												
<u>Code_id</u>	<u>Description</u>												
3392	Herring, Atlantic												
1315	Mackerel, Atlantic												
	BAIT_USED	BT_TYP_ID BT_COND_ID											
706	PCONS	SPECIE_ID	<p>When declaring personal consumption, only the species that were caught (Catch.Specie_id) and have a kept weight greater than 0 (Catch.Kept_wt&gt;0) in this logbook must be available and considered valid.</p> <p>Ref table: Mv_species</p>										
	CATCH	SPECIE_ID KEPT_WT											
271a	PCONS	SPECIE_ID description	<p>When the species code (Pcons.Specie_id) is 15876 the French description of the species displayed by the client application must be “Crabes lyres (Hyas-violons ou araignées)” instead of “Crabes lyres”.</p> <p>Ref table: Mv_species</p>										
271b	PCONS	SPECIE_ID description	<p>When the species code (Pcons.Specie_id) is 15876, the English description of the species displayed by the client application must be “Crabs, Toad (Hyas-Lyres or spiders)” instead of “Crabs, Toad”.</p> <p>Ref table: Mv_species</p>										

General rules - restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
153	PCONS	SPECIE_FRM_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>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										
707	GEAR_INFO	NB_GEARs	The number of gear (Gear_info.Nb_gears) must be greater than 0.								
708	GEAR_INFO	FRAME_MAT_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>39739</td><td>Iron</td></tr><tr><td>39740</td><td>Iron and Stainless</td></tr><tr><td>39741</td><td>Stainless</td></tr></table> Ref table: Mv_material_type	<u>Code_id</u>	<u>Description</u>	39739	Iron	39740	Iron and Stainless	39741	Stainless
<u>Code_id</u>	<u>Description</u>										
39739	Iron										
39740	Iron and Stainless										
39741	Stainless										
709	GEAR_INFO	MSH_MAT_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>39741</td><td>Stainless</td></tr><tr><td>39742</td><td>Synthetic Material</td></tr></table> Ref table: Mv_material_type	<u>Code_id</u>	<u>Description</u>	39741	Stainless	39742	Synthetic Material		
<u>Code_id</u>	<u>Description</u>										
39741	Stainless										
39742	Synthetic Material										
710	GEAR_INFO	GEAR_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>932</td><td>Conical trap</td></tr><tr><td>39737</td><td>Circular trap (cylindrical)</td></tr><tr><td>39738</td><td>Square trap</td></tr></table> Ref table: Mv_Gear_Description	<u>Code_id</u>	<u>Description</u>	932	Conical trap	39737	Circular trap (cylindrical)	39738	Square trap
<u>Code_id</u>	<u>Description</u>										
932	Conical trap										
39737	Circular trap (cylindrical)										
39738	Square trap										



General rules - restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
711	GEAR_INFO	GEAR_ID GEAR_BTM_DIA	<p>If the gear (Gear_info.Gear_id) is one of:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>932</td><td>Conical trap</td></tr><tr><td>39737</td><td>Circular trap (cylindrical)</td></tr></table> <p>Then the capture of the gear diameter (Gear_info.Gear_btm_dia) is mandatory</p> <p>Otherwise, the capture of the gear diameter (Gear_info.Gear_btm_dia) must be blocked.</p> <p>Ref table: Mv_gear_description</p>	Code_id	Description	932	Conical trap	39737	Circular trap (cylindrical)
Code_id	Description								
932	Conical trap								
39737	Circular trap (cylindrical)								
712	GEAR_INFO	GEAR_BTM_DIA	Bottom diameter (Gear_info.Gear_btm_dia) must be greater than 0 and less than 9 feet (274 cm)						
713	GEAR_INFO	GEAR_ID GEAR_WDTH	<p>If the gear (Gear_info.Gear_id) is one of:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>39738</td><td>Square trap</td></tr></table> <p>then the capture of the gear width (Gear_info.Gear_wdth) is mandatory</p> <p>Otherwise, the capture of the gear width (Gear_info.Gear_wdth) must be blocked.</p> <p>Ref table: Mv_gear_description</p>	Code_id	Description	39738	Square trap		
Code_id	Description								
39738	Square trap								
714	GEAR_INFO	GEAR_WDTH	Gear width (Gear_info.Gear_wdth) must be greater than 0 and less than 9 feet (274 cm)						
715	GEAR_INFO	ESC_DIA	The escape ring diameter (Gear_info.Esc_dia) must be between 90 mm and 130 mm inclusively.						
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.						
29	EFFORT	START_DT	The effort start date (Effort.Start_dt) must be later than or equal to the trip start date and time (Trip.Start_dt).						
	TRIP	START_DT							
31	EFFORT	END_DT	The effort end date and time (Effort.End_dt) must be before or equal to 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																										
33	EFFORT	START_DT END_DT	The period of time covered by one fishing effort must not overlap the period covered by another previously entered fishing effort (under the same licence).																										
826	GENERAL_INFO	SUBFORM_ID	Only these targeted species must be available and considered valid for the sub-form:  (see <u>Appendix A - List of valid targeted species per sub-form</u> )  Ref tables: Mv_species, Mv_subforms																										
	TGT_SPECIES	SPECIE_ID																											
772	TGT_SPECIES	SPECIE_ID	If the targeted species is “Crabs, Toad” (Tgt_species.Specie_id=15876), then change the English description displayed from “Crabs, Toad (Hyas-Lyres or spiders)”  Ref table: Mv_species																										
773	TGT_SPECIES	SPECIE_ID	If the targeted species is “Crabes lyres” (Tgt_species.Specie_id=15876), then change the French description displayed from “Crabes lyres (Hyas-violons ou araignées)”  Ref table: Mv_species																										
717a	TGT_SPECIES	SPECIE_ID	If the targeted species (Tgt_species.Specie_id) is one of:  <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>4420</td><td>Dungeness Crab</td></tr><tr><td>4424</td><td>Crab, Red King</td></tr><tr><td>4426</td><td>Crab, Red Rock</td></tr><tr><td>16638</td><td>Crab, Golden King</td></tr></table>  Only these fishing areas (Effort.Fma_id) must be available and considered valid:  <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>3534</td><td>Pacific Crab Area A</td></tr><tr><td>3535</td><td>Pacific Crab Area B</td></tr><tr><td>3538</td><td>Pacific Crab Area E</td></tr><tr><td>3540</td><td>Pacific Crab Area G</td></tr><tr><td>3541</td><td>Pacific Crab Area H</td></tr><tr><td>3542</td><td>Pacific Crab Area I</td></tr><tr><td>3543</td><td>Pacific Crab Area J</td></tr></table>  Ref tables: Mv_fma, Mv_species	Code_id	Description	4420	Dungeness Crab	4424	Crab, Red King	4426	Crab, Red Rock	16638	Crab, Golden King	Code_id	Description	3534	Pacific Crab Area A	3535	Pacific Crab Area B	3538	Pacific Crab Area E	3540	Pacific Crab Area G	3541	Pacific Crab Area H	3542	Pacific Crab Area I	3543	Pacific Crab Area J
	Code_id	Description																											
4420	Dungeness Crab																												
4424	Crab, Red King																												
4426	Crab, Red Rock																												
16638	Crab, Golden King																												
Code_id	Description																												
3534	Pacific Crab Area A																												
3535	Pacific Crab Area B																												
3538	Pacific Crab Area E																												
3540	Pacific Crab Area G																												
3541	Pacific Crab Area H																												
3542	Pacific Crab Area I																												
3543	Pacific Crab Area J																												
	EFFORT	FMA_ID																											

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
<b>717b</b>	TGT_SPECIES	SPECIE_ID	<p>If the targeted species (Tgt_species.Specie_id) is one of:</p> <p><u>Code_id</u>   <u>Description</u> 1288      Crab, Queen Snow</p> <p>Only these fishing areas (Effort.Fma_id) must be available and considered valid:</p> <p><u>Code_id</u>   <u>Description</u> (See <a href="#">Appendix B: Snow crab Fishery Management Areas</a>)</p> <p>Ref tables: Mv_fma, Mv_species</p>
	EFFORT	FMA_ID	
<b>717c</b>	TGT_SPECIES	SPECIE_ID	<p>If the targeted species (Tgt_species.Specie_id) is one of:</p> <p><u>Code_id</u>   <u>Description</u> 1287      Crab, Rock</p> <p>Only these fishing areas (Effort.Fma_id) must be available and considered valid:</p> <p><u>Code_id</u>   <u>Description</u> (See <a href="#">Appendix C: Rock crab Fishery Management Areas</a>)</p> <p>Ref tables: Mv_fma, Mv_species</p>
	EFFORT	FMA_ID	
<b>717d</b>	TGT_SPECIES	SPECIE_ID	<p>If the targeted species (Tgt_species.Specie_id) is one of:</p> <p><u>Code_id</u>   <u>Description</u> 1286      Crab, Jonah</p> <p>Only these fishing areas (Effort.Fma_id) must be available and considered valid:</p> <p><u>Code_id</u>   <u>Description</u> (See <a href="#">Appendix D: Jonah crab Fishery Management Areas</a>)</p> <p>Ref tables: Mv_fma, Mv_species</p>
	EFFORT	FMA_ID	

General rules - restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
717e	TGT_SPECIES	SPECIE_ID	If the targeted species (Tgt_species.Specie_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>15876</td><td>Crabs, Toad</td></tr></table> Only these fishing areas (Effort.Fma_id) must be available and considered valid:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>(See <u>Appendix E: Toad crab Fishery Management Areas (Hyas)</u>)</td><td></td></tr></table> Ref tables: Mv_fma, Mv_species	<u>Code_id</u>	<u>Description</u>	15876	Crabs, Toad	<u>Code_id</u>	<u>Description</u>	(See <u>Appendix E: Toad crab Fishery Management Areas (Hyas)</u> )	
	<u>Code_id</u>	<u>Description</u>									
15876	Crabs, Toad										
<u>Code_id</u>	<u>Description</u>										
(See <u>Appendix E: Toad crab Fishery Management Areas (Hyas)</u> )											
EFFORT	FMA_ID										
718	TGT_SPECIES	SPECIE_ID	If the targeted species (Tgt_species.Specie_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1289</td><td>Crab, Red</td></tr><tr><td>1917</td><td>Crab, Green</td></tr><tr><td>1919</td><td>Crab, Porcupine</td></tr></table> Then the capture of the Fishery Management Area (Effort.Fma_id) must be blocked.  Ref tables: Mv_fma, Mv_species	<u>Code_id</u>	<u>Description</u>	1289	Crab, Red	1917	Crab, Green	1919	Crab, Porcupine
	<u>Code_id</u>	<u>Description</u>									
1289	Crab, Red										
1917	Crab, Green										
1919	Crab, Porcupine										
EFFORT	FMA_ID										
719	TGT_SPECIES	SPECIE_ID	If the targeted species (Tgt_species.Specie_id) is <b>NOT</b> one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1289</td><td>Crab, Red</td></tr><tr><td>1917</td><td>Crab, Green</td></tr><tr><td>1919</td><td>Crab, Porcupine</td></tr></table> then the capture of the Fishery Management Area (Effort.Fma_id) is mandatory.  Ref tables: Mv_fma, Mv_species	<u>Code_id</u>	<u>Description</u>	1289	Crab, Red	1917	Crab, Green	1919	Crab, Porcupine
	<u>Code_id</u>	<u>Description</u>									
1289	Crab, Red										
1917	Crab, Green										
1919	Crab, Porcupine										
EFFORT	FMA_ID										

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
<b>603</b>	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> <p>Ref table: Mv_response</p>
<b>604</b>	EFFORT	SAR_IND	<p>When the answer is 'Yes' (Effort.Sar_ind='Y'), then the following message must be displayed:</p> <p><u>Français:</u> Veuillez compléter la section concernant les interactions avec une espèce en péril.</p> <p><u>Anglais:</u> Please, complete the section concerning species at risk interactions.</p> <p>Ref table: Mv_response</p>
<b>780</b>	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>

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
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> <p>Ref table: Mv_response</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 <u>Appendix F - List of valid fishing gears per sub-form</u>)</p> <p>Ref tables: Mv_gear_description, Mv_subforms</p>
	GENERAL_INFO	SUBFORM_ID	

General rules - restrictions on data elements															
Rule No.	Node(s)	Element(s)	Rule												
986	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> ...and 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 tables: Mv_gear_description, Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs		
	<u>Subform_id</u>	<u>Description</u>													
92	QC - Crabs														
93	GLF - Crabs														
94	MAR - Crabs														
95	NL - Crabs														
EFFORT_BY_GEAR	GEAR_ID (description)														
987	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> ...and the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>929</td><td>Japanese trap</td></tr><tr><td>932</td><td>Conical trap</td></tr><tr><td>933</td><td>Pyramidal trap</td></tr></table> then the capture of the mesh size (Effort_by_gear.Msh_sz) is mandatory. Otherwise, capture of the mesh size (Effort_by_gear.Msh_sz) must be blocked.  Ref tables: Mv_gear_description, Mv_subforms	<u>Subform_id</u>	<u>Description</u>	95	NL - Crabs	<u>Code_id</u>	<u>Description</u>	929	Japanese trap	932	Conical trap	933	Pyramidal trap
	<u>Subform_id</u>	<u>Description</u>													
95	NL - Crabs														
<u>Code_id</u>	<u>Description</u>														
929	Japanese trap														
932	Conical trap														
933	Pyramidal trap														
EFFORT_BY_GEAR	GEAR_ID MSH_SZ														
94	EFFORT_BY_GEAR	MSH_SZ	Value must be greater or equal to 1 mm and less than or equal to 999 mm												

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
<b>268</b>	EFFORT_BY_GEAR	GEAR_ID TRP_SZ_ID	<p>If the gear is « Conical trap » or « Pyramidal trap» (EFFORT_BY_GEAR.GEAR_ID = 932 or 933), then the trap size (EFFORT_BY_GEAR.TRP_SZ_ID) is mandatory</p> <p>Ref tables: Mv_gear_description, Mv_trap_size</p>
<b>729</b>	EFFORT_BY_GEAR	GEAR_ID TRP_SZ_ID	<p>If the gear is <b>NOT</b> « Conical trap » or « Pyramidal trap» (Effort_by_gear.Gear_id = 932 or 933), then the capture of the trap size (Effort_by_gear.Trp_sz_id) must be blocked.</p> <p>Ref tables: Mv_gear_description, Mv_trap_size</p>
<b>219</b>	EFFORT_BY_GEAR	GEAR_ID / TRP_SZ_ID	<p>Only the following combinations of gear type and gear size must be available and considered valid:</p> <p>Conical trap (Gear_id: 932) / 3 feet (Trp_sz_id: 25251). 4 feet (Trp_sz_id: 25253). 6 feet (Trp_sz_id: 25255). 7 feet (Trp_sz_id: 37806). 8 feet (Trp_sz_id: 37808).</p> <p>Pyramidal trap (Gear_id: 933) / 3 feet (Trp_sz_id: 25251). 4 feet (Trp_sz_id: 25253). 6 feet (Trp_sz_id: 25255). 7 feet (Trp_sz_id: 37806). 8 feet (Trp_sz_id: 37808).</p> <p>Ref tables : Mv_gear_description, Mv_trap_size</p>
<b>783</b>	EFFORT_BY_GEAR		<p>A same bait fastener (Ebg_bt_fstnrs.Bt_fstn_id) must be represented only one time in a same occurrence of node Effort_by_gear.</p> <p>More than one bait fastener could be selected within an occurrence of Effort_by_gear.</p> <p>Ref table: Mv_bait_fastener</p>
	EBG_BT_FSTNRS	BT_FSTN_ID	



General rules - restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
784	EFFORT_BY_GEAR		A same fishing method (Ebg_fsh_meth.Fsh_meth_id) must be represented only one time in a same occurrence of node Effort_by_gear.  More than one fishing method could be selected within an occurrence of Effort_by_gear.  Ref table: Mv_fishing_method				
	EBG_FSH_METH	FSH_METH_ID					
730	EFFORT		The traps' group number (Effort_detail.Gear_grp_num) must be unique in the same fishing effort (occurrence of node Effort).				
	EFFORT_DETAIL	GEAR_GRP_NUM					
609x	EFFORT_DETAIL	GEAR_GRP_NUM	The gear group number must be generated automatically and sequentially, starting from 1 at each new occurrence of Effort node.				
610	EFFORT_DETAIL	GEAR_GRP_NUM	The same "Effort_by_gear" node may not contain two "Effort_detail" nodes with the same value in element "Gear_grp_num".				
731	EFFORT_DETAIL	DATE_TIME	The date and time (Effort_detail.Date_time) 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					
988a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>94</td><td>MAR - Crabs</td></tr></table> Then the latitude (Effort_detail.Lat) must be greater than or equal to 38.0000 (deg) and less than or equal to 61.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	94	MAR - Crabs
	<u>Subform_id</u>	<u>Description</u>					
94	MAR - Crabs						
	EFFORT_DETAIL	LAT					

General rules - restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
989a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>94</td><td>MAR - Crabs</td></tr></table> Then the longitude (Effort_detail.Long) must be greater than or equal to -78.0000 (deg) and less than or equal to -40.0000 (deg) .  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	94	MAR - Crabs		
	<u>Subform_id</u>	<u>Description</u>							
94	MAR - Crabs								
EFFORT_DETAIL	LONG								
988b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> Then the latitude (Effort_detail.Lat) must be greater than or equal to 48.0000 (deg) and less than or equal to 57.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools
	<u>Subform_id</u>	<u>Description</u>							
96	PAC - Crabs - Traps (Pots and square net)								
97	PAC - Crabs - Hands and Hand tools								
EFFORT_DETAIL	LAT								
989b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> Then the longitude (Effort_detail.Long) must be greater than or equal to -140.0000 (deg) and less than or equal to -122.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools
	<u>Subform_id</u>	<u>Description</u>							
96	PAC - Crabs - Traps (Pots and square net)								
97	PAC - Crabs - Hands and Hand tools								
EFFORT_DETAIL	LONG								

General rules - restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
993	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> Then the latitude (Effort_detail.Start_lat) must be greater than or equal to 38.0000 (deg) and less than or equal to 61.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	95	NL - Crabs
	<u>Subform_id</u>	<u>Description</u>									
92	QC - Crabs										
93	GLF - Crabs										
95	NL - Crabs										
EFFORT_DETAIL	START_LAT										
994	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> Then the longitude (Effort_detail.Start_long) must be greater than or equal to -78.0000 (deg) and less than or equal to -40.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	95	NL - Crabs
	<u>Subform_id</u>	<u>Description</u>									
92	QC - Crabs										
93	GLF - Crabs										
95	NL - Crabs										
EFFORT_DETAIL	START_LONG										
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									

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
990	GENERAL_INFO	SUBFORM_ID	<p>If the selected sub-form (General_info.Subform_id) is one of:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> <p>...and the targeted species (Tgt_species.Specie_id) is one of :</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1287</td><td>Crab, Rock</td></tr><tr><td>15876</td><td>Crabs, Toad</td></tr></table> <p>Then the capture of the grid (Effort_detail.Start_grid_id) is mandatory.</p> <p>Ref tables: Mv_subforms, Mv_species, Mv_grid</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1287	Crab, Rock	15876	Crabs, Toad
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
1287	Crab, Rock												
15876	Crabs, Toad												
TGT_SPECIES	SPECIE_ID												
EFFORT_DETAIL	START_GRID_ID												
991	GENERAL_INFO	SUBFORM_ID	<p>If the selected sub-form (General_info.Subform_id) is one of:</p> <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> <p>...and the targeted species (Tgt_species.Specie_id) is <b>NOT one of</b> :</p> <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1287</td><td>Crab, Rock</td></tr><tr><td>15876</td><td>Crabs, Toad</td></tr></table> <p>Then the capture of the grid (Effort_detail.Start_grid_id) must be blocked.</p> <p>Ref tables: Mv_dfo_region, Mv_species, Mv_grid</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1287	Crab, Rock	15876	Crabs, Toad
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
1287	Crab, Rock												
15876	Crabs, Toad												
TGT_SPECIES	SPECIE_ID												
EFFORT_DETAIL	START_GRID_ID												

General rules - restrictions on data elements																	
Rule No.	Node(s)	Element(s)	Rule														
739a	TGT_SPECIES	SPECIE_ID	If the Fishery Management Area (Effort.Fma_id) is one of:  <table><thead><tr><th>Code_id</th><th>Description</th></tr></thead><tbody><tr><td>4306</td><td>Crab Toad/Spider Fishing Area 12</td></tr><tr><td>4307</td><td>Crab Toad/Spider Fishing Area 12A</td></tr><tr><td>25755</td><td>Crab/Toad Spider Fishing Area CN-1</td></tr><tr><td>25754</td><td>Crab/Toad Spider Fishing Area CN-2</td></tr><tr><td>25753</td><td>Crab/Toad Spider Fishing Area CN-3</td></tr><tr><td>25752</td><td>Crab/Toad Spider Fishing Area CN-4</td></tr></tbody></table> Then the grid (Effort_detail.Start_grid_id) must be valid against the fishery management area (Effort.Fma_id) and the NAFO area (Effort_detail.Start_Nafo_id).  If at least one record is found in table SPECIES_GRID_NAFO_FMA while using the following filter, then the combination is considered valid.  Species_grid_nafo_fma.Species_id = 15876  Effort.Fma_id= Species_grid_nafo_fma.Fma_id  Effort_detail.Start_Nafo_id= Species_grid_nafo_fma.Nafo_id  Effort_detail.Start_grid_id= Species_grid_nafo_fma.Grid_id  Ref tables: Species_grid_nafo_fma, Mv_species, Mv_fma, Mv_grid	Code_id	Description	4306	Crab Toad/Spider Fishing Area 12	4307	Crab Toad/Spider Fishing Area 12A	25755	Crab/Toad Spider Fishing Area CN-1	25754	Crab/Toad Spider Fishing Area CN-2	25753	Crab/Toad Spider Fishing Area CN-3	25752	Crab/Toad Spider Fishing Area CN-4
	Code_id	Description															
	4306	Crab Toad/Spider Fishing Area 12															
4307	Crab Toad/Spider Fishing Area 12A																
25755	Crab/Toad Spider Fishing Area CN-1																
25754	Crab/Toad Spider Fishing Area CN-2																
25753	Crab/Toad Spider Fishing Area CN-3																
25752	Crab/Toad Spider Fishing Area CN-4																
EFFORT	FMA_ID																
EFFORT_DETAIL	START_GRID_ID																

General rules - restrictions on data elements																																																															
Rule No.	Node(s)	Element(s)	Rule																																																												
739b	TGT_SPECIES	SPECIE_ID	If the Fishery Management Area (Effort.Fma_id) is one of:  <table><thead><tr><th>Code_id</th><th>Description</th></tr></thead><tbody><tr><td>25696</td><td>Rock Crab Fishing Area 12A</td></tr><tr><td>25693</td><td>Rock Crab Fishing Area 12B</td></tr><tr><td>25694</td><td>Rock Crab Fishing Area 12C</td></tr><tr><td>25699</td><td>Rock Crab Fishing Area 12D1</td></tr><tr><td>25700</td><td>Rock Crab Fishing Area 12D2</td></tr><tr><td>25701</td><td>Rock Crab Fishing Area 12D3</td></tr><tr><td>25702</td><td>Rock Crab Fishing Area 12D4</td></tr><tr><td>25703</td><td>Rock Crab Fishing Area 12D5</td></tr><tr><td>25705</td><td>Rock Crab Fishing Area 12D6</td></tr><tr><td>25704</td><td>Rock Crab Fishing Area 12D7</td></tr><tr><td>25716</td><td>Rock Crab Fishing Area 12F</td></tr><tr><td>25710</td><td>Rock Crab Fishing Area 12O</td></tr><tr><td>25719</td><td>Rock Crab Fishing Area 12Q</td></tr><tr><td>25724</td><td>Rock Crab Fishing Area 12W</td></tr><tr><td>25725</td><td>Rock Crab Fishing Area 12X</td></tr><tr><td>25726</td><td>Rock Crab Fishing Area 12Y</td></tr><tr><td>25727</td><td>Rock Crab Fishing Area 12Z</td></tr><tr><td>25682</td><td>Rock Crab Fishing Area 16A</td></tr><tr><td>25688</td><td>Rock Crab Fishing Area 16B</td></tr><tr><td>25683</td><td>Rock Crab Fishing Area 16C</td></tr><tr><td>25684</td><td>Rock Crab Fishing Area 16D</td></tr><tr><td>25685</td><td>Rock Crab Fishing Area 16E1</td></tr><tr><td>25686</td><td>Rock Crab Fishing Area 16E2</td></tr><tr><td>25687</td><td>Rock Crab Fishing Area 16F</td></tr><tr><td>25689</td><td>Rock Crab Fishing Area 16G</td></tr><tr><td>25690</td><td>Rock Crab Fishing Area 17A</td></tr><tr><td>25691</td><td>Rock Crab Fishing Area 17B</td></tr><tr><td>39569</td><td>Rock Crab Fishing Area 17C1</td></tr><tr><td>39570</td><td>Rock Crab Fishing Area 17C2</td></tr></tbody></table> Then the Grid (Effort_detail.Start_grid_id) must be valid against the fishery management area (Effort.Fma_id) and the NAFO area (Effort_detail.Start_Nafo_id).  If at least one record is found in table SPECIES_GRID_NAFO_FMA while using the following filter, then the combination is considered valid.  Species_grid_nafo_fma.Species_id = 1287	Code_id	Description	25696	Rock Crab Fishing Area 12A	25693	Rock Crab Fishing Area 12B	25694	Rock Crab Fishing Area 12C	25699	Rock Crab Fishing Area 12D1	25700	Rock Crab Fishing Area 12D2	25701	Rock Crab Fishing Area 12D3	25702	Rock Crab Fishing Area 12D4	25703	Rock Crab Fishing Area 12D5	25705	Rock Crab Fishing Area 12D6	25704	Rock Crab Fishing Area 12D7	25716	Rock Crab Fishing Area 12F	25710	Rock Crab Fishing Area 12O	25719	Rock Crab Fishing Area 12Q	25724	Rock Crab Fishing Area 12W	25725	Rock Crab Fishing Area 12X	25726	Rock Crab Fishing Area 12Y	25727	Rock Crab Fishing Area 12Z	25682	Rock Crab Fishing Area 16A	25688	Rock Crab Fishing Area 16B	25683	Rock Crab Fishing Area 16C	25684	Rock Crab Fishing Area 16D	25685	Rock Crab Fishing Area 16E1	25686	Rock Crab Fishing Area 16E2	25687	Rock Crab Fishing Area 16F	25689	Rock Crab Fishing Area 16G	25690	Rock Crab Fishing Area 17A	25691	Rock Crab Fishing Area 17B	39569	Rock Crab Fishing Area 17C1	39570	Rock Crab Fishing Area 17C2
	Code_id	Description																																																													
	25696	Rock Crab Fishing Area 12A																																																													
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39570	Rock Crab Fishing Area 17C2																																																														
	EFFORT	FMA_ID																																																													
	EFFORT_DETAIL	START_GRID_ID																																																													

General rules - restrictions on data elements															
Rule No.	Node(s)	Element(s)	Rule												
			Effort.Fma_id= Species_grid_nafo_fma.Fma_id  Effort_detail.Start.Nafo_id= Species_grid_nafo_fma.Nafo_id  Effort_detail.Start_grid_id= Species_grid_nafo_fma.Grid_id  Ref tables: Species_grid_nafo_fma, Mv_species, Mv_fma, Mv_grid												
739c	TGT_SPECIES	SPECIE_ID	If the Fishery Management Area (Effort.Fma_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1576</td><td>Lobster Fishing Area 23</td></tr><tr><td>1577</td><td>Lobster Fishing Area 24</td></tr><tr><td>1578</td><td>Lobster Fishing Area 25</td></tr><tr><td>1579</td><td>Lobster Fishing Area 26a</td></tr><tr><td>1580</td><td>Lobster Fishing Area 26b</td></tr></table> Then the Grid (Effort_detail.Start_grid_id) must be valid against the fishery management area (Effort.Fma_id) and the NAFO area (Effort_detail.Start_Nafo_id).  If at least one record is found in table SPECIES_GRID_NAFO_FMA while using the following filter, then the combination is considered valid.  Species_grid_nafo_fma.Species_id = 1312  Effort.Fma_id= Species_grid_nafo_fma.Fma_id  Effort_detail.Start_Nafo_id= Species_grid_nafo_fma.Nafo_id  Effort_detail.Start_grid_id= Species_grid_nafo_fma.Grid_id  Ref tables: Species_grid_nafo_fma, Mv species, Mv fma, Mv grid	<u>Code_id</u>	<u>Description</u>	1576	Lobster Fishing Area 23	1577	Lobster Fishing Area 24	1578	Lobster Fishing Area 25	1579	Lobster Fishing Area 26a	1580	Lobster Fishing Area 26b
	<u>Code_id</u>	<u>Description</u>													
	1576	Lobster Fishing Area 23													
1577	Lobster Fishing Area 24														
1578	Lobster Fishing Area 25														
1579	Lobster Fishing Area 26a														
1580	Lobster Fishing Area 26b														
EFFORT	FMA_ID														
EFFORT_DETAIL	START_GRID_ID														

General rules - restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
740	TGT_SPECIES	SPECIE_ID	<p>If the targeted species (Tgt_species.Specie_id) is one of:</p> <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>1287</td><td>Crab, Rock</td></tr></table> <p>... and latitude (Effort_detail.Start_lat) is between 46.9000 and 47.9667 inclusively</p> <p>...and longitude (Effort_detail.Start_long) is between -62.2333 and -61.1667 inclusively</p> <p>then only the grids from map #3<sup>2</sup> are authorized. Therefore, only codes (Mv_grid.code_id) of the Mv_grid table having the first character of the French description (Mv_grid.Desc_fre) equal to “3” are authorized. (e.g. 3LL18)</p> <p>Otherwise, only the grids from map #1<sup>3</sup> are authorized. Therefore, only codes (Mv_grid.code_id) of the Mv_grid table having the first character of the French description (Mv_grid.Desc_fre) equal to “1” are authorized. (e.g. 1GL24)</p> <p>Ref tables: Mv_species, Mv_Grid</p>	Code_id	Description	1287	Crab, Rock
	Code_id	Description					
1287	Crab, Rock						
EFFORT_DETAIL	START_LAT START_LONG START_GRID_ID						
774	EFFORT_DETAIL	START_GRID_ID START_LAT START_LONG	<p>The grid (Effort_detail.Start_grid_id) must cover the position recorded (Effort_detail.Start_lat and Effort_detail.Start_long).</p> <p>Ref table: Mv_grid</p>				
741	EFFORT_DETAIL	END_DT	<p>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.</p>				
	EFFORT	START_DT END_DT					
742	EFFORT_DETAIL	END_DT	<p>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.</p>				

<sup>2</sup> Map *NAFO Divisions and grids (map #3)* can be found in the general documentation available to developers.

<sup>3</sup> Map *NAFO Divisions and grids (map #1)* can be found in the general documentation available to developers.



General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
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).										
992	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1287</td><td>Crab, Rock</td></tr></table> Then the capture of the latitude and longitude at the end of the effort (Effort_detail.End_lat and Effort_detail.End_long) must be blocked.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1287	Crab, Rock		
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
1287	Crab, Rock												
TGT_SPECIES	SPECIE_ID												
	EFFORT_DETAIL	END_LAT END_LONG											
3013	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>15876</td><td>Crabs, Toad</td></tr><tr><td>1288</td><td>Crab, Queen Snow</td></tr></table> Then the capture of the latitude and longitude at the end of the effort (Effort_detail.End_lat and Effort_detail.End_long) is mandatory.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	15876	Crabs, Toad	1288	Crab, Queen Snow
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
15876	Crabs, Toad												
1288	Crab, Queen Snow												
TGT_SPECIES	SPECIE_ID												
	EFFORT_DETAIL	END_LAT END_LONG											

General rules - restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
995	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> Then the latitude (Effort_detail.End_lat) must be greater than or equal to 38.0000 (deg) and less than or equal to 61.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	95	NL - Crabs		
	<u>Subform_id</u>	<u>Description</u>									
92	QC - Crabs										
95	NL - Crabs										
EFFORT_DETAIL	END_LAT										
996	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> Then the longitude (Effort_detail.End_long) must be greater than or equal to -78.0000 (deg) and less than or equal to -40.0000 (deg).  Ref table: Mv_subforms	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	95	NL - Crabs		
	<u>Subform_id</u>	<u>Description</u>									
92	QC - Crabs										
95	NL - Crabs										
EFFORT_DETAIL	END_LONG										
997	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><td><u>Subform_id</u></td><td><u>Description</u></td></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><td><u>Code_id</u></td><td><u>Description</u></td></tr><tr><td>1287</td><td>Crab, Rock</td></tr></table> Then the capture of the farthest position (Effort_detail.Far_gr_lat and Effort_detail.Far_gr_long) is mandatory.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1287	Crab, Rock
	<u>Subform_id</u>	<u>Description</u>									
	92	QC - Crabs									
<u>Code_id</u>	<u>Description</u>										
1287	Crab, Rock										
TGT_SPECIES	SPECIE_ID										
EFFORT_DETAIL	FAR_GR_LAT FAR_GR_LONG										

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
998	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>15876</td><td>Crabs, Toad</td></tr><tr><td>1288</td><td>Crab, Queen Snow</td></tr></table> Then the capture of the farthest position (Effort_detail.Far_gr_lat and Effort_detail.Far_gr_long) must be blocked.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	15876	Crabs, Toad	1288	Crab, Queen Snow
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
15876	Crabs, Toad												
1288	Crab, Queen Snow												
TGT_SPECIES	SPECIE_ID												
	EFFORT_DETAIL	FAR_GR_LAT FAR_GR_LONG											
775	EFFORT_DETAIL	FAR_GR_LAT	The farthest latitude (Effort_detail.Far_gr_lat) must be greater than or equal to 38.0000 (deg) and less than or equal to 61.0000 (deg)										
776	EFFORT_DETAIL	FAR_GR_LONG	The farthest longitude (Effort_detail.Far_gr_long) must be greater than or equal to -78.0000 (deg) and less than or equal to -40.0000 (deg)										
748	EFFORT_DETAIL	PAC_STAT_AREA_ID	The statistical area (Effort_detail.Pac_stat_area_id) must be valid against the fishery management area (Effort.Fma_id).  One record must be found in table MV_SUB_AREA where column FMA_CODE_ID is equal to Effort.Fma_id and CODE_ID is equal to Effort_detail.Pac_stat_area_id.  If no record is found, the Statistical section (Effort_detail.Pac_stat_area_id) is considered invalid against the Fishery Management Area (Effort.Fma_id).  Ref tables: Mv_sub_area, Mv_fma										
	EFFORT	FMA_ID											

General rules - restrictions on data elements																			
Rule No.	Node(s)	Element(s)	Rule																
999	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>94</td><td>MAR - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1289</td><td>Crab, Red</td></tr></table> Then only the following NAFO areas must be available and considered valid:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>975</td><td>4W</td></tr><tr><td>976</td><td>4X</td></tr><tr><td>25835</td><td>5Z</td></tr></table> Ref tables: Mv_forms, Mv_species, Mv_nafo_division_subdivision	<u>Subform_id</u>	<u>Description</u>	94	MAR - Crabs	<u>Code_id</u>	<u>Description</u>	1289	Crab, Red	<u>Code_id</u>	<u>Description</u>	975	4W	976	4X	25835	5Z
	<u>Subform_id</u>	<u>Description</u>																	
	94	MAR - Crabs																	
<u>Code_id</u>	<u>Description</u>																		
1289	Crab, Red																		
<u>Code_id</u>	<u>Description</u>																		
975	4W																		
976	4X																		
25835	5Z																		
TGT_SPECIES	SPECIE_ID																		
EFFORT_DETAIL	NAFO_ID																		
750	EFFORT_BY_GEAR	GEAR_ID	If the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>929</td><td>Japanese trap</td></tr><tr><td>932</td><td>Conical trap</td></tr><tr><td>933</td><td>Pyramidal trap</td></tr><tr><td>925</td><td>Pot</td></tr><tr><td>3398</td><td>Ring net</td></tr></table> Then the capture of the Soaked duration (Effort_detail.Soaked_dur) is mandatory.  Ref table: Mv_gear_description	<u>Code_id</u>	<u>Description</u>	929	Japanese trap	932	Conical trap	933	Pyramidal trap	925	Pot	3398	Ring net				
	<u>Code_id</u>	<u>Description</u>																	
929	Japanese trap																		
932	Conical trap																		
933	Pyramidal trap																		
925	Pot																		
3398	Ring net																		
EFFORT_DETAIL	SOAKED_DUR																		

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
751	EFFORT_BY_GEAR	GEAR_ID	If the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th>Code_id</th><th>Description</th></tr><tr><td>934</td><td>Dip net</td></tr><tr><td>954</td><td>Hand and hand held tools</td></tr></table> Then the capture of the Soaked duration (Effort_detail.Soaked_dur) must be blocked.  Ref table: Mv_gear_description	Code_id	Description	934	Dip net	954	Hand and hand held tools				
	Code_id	Description											
934	Dip net												
954	Hand and hand held tools												
	EFFORT_DETAIL	SOAKED_DUR											
286	EFFORT_DETAIL	SOAKED_DUR	The soaked time (Effort_detail.Soaked_dur) must be captured in days or in hours without decimals in the client application. (1 day, 2 days, 3 days, 1 hour, 15 hours, etc.)										
3000a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th>Subform_id</th><th>Description</th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> then the soaked duration must not exceed 216 hours (9 days).  Ref table: Mv_subforms	Subform_id	Description	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs
	Subform_id	Description											
92	QC - Crabs												
93	GLF - Crabs												
94	MAR - Crabs												
95	NL - Crabs												
	EFFORT_DETAIL	SOAKED_DUR											
3000b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th>Subform_id</th><th>Description</th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> the soaked duration must not exceed 432 hours (18 days).  Ref table: Mv_subforms	Subform_id	Description	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools				
	Subform_id	Description											
96	PAC - Crabs - Traps (Pots and square net)												
97	PAC - Crabs - Hands and Hand tools												
	EFFORT_DETAIL	SOAKED_DUR											

General rules - restrictions on data elements																					
Rule No.	Node(s)	Element(s)	Rule																		
3001	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr><tr><td>93</td><td>GLF - Crabs</td></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> ...and the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>929</td><td>Japanese trap</td></tr><tr><td>932</td><td>Conical trap</td></tr><tr><td>933</td><td>Pyramidal trap</td></tr></table> then the capture of the depth (Effort_detail.Avg_gr_dpth) is mandatory. Otherwise, the capture of the depth (Effort_detail.Avg_gr_dpth) must be blocked.  Ref tables: Mv_subforms, Mv_gear_description	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	93	GLF - Crabs	94	MAR - Crabs	95	NL - Crabs	<u>Code_id</u>	<u>Description</u>	929	Japanese trap	932	Conical trap	933	Pyramidal trap
	<u>Subform_id</u>	<u>Description</u>																			
	92	QC - Crabs																			
93	GLF - Crabs																				
94	MAR - Crabs																				
95	NL - Crabs																				
<u>Code_id</u>	<u>Description</u>																				
929	Japanese trap																				
932	Conical trap																				
933	Pyramidal trap																				
EFFORT_BY_GEAR	GEAR_ID																				
	EFFORT_DETAL	AVG_GR_DPTH																			

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
3002	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> ...and the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>925</td><td>Pot</td></tr></table> then the capture of the minimum gear depth (Effort_detail.Min_gr_dpth) and maximum gear depth (Effort_detail.Max_gr_dpth) is mandatory. Otherwise, the capture of the depths (Effort_detail.Min_gr_dpth and Effort_detail.Max_gr_dpth) must be blocked.  Ref tables: Mv_subforms, Mv_gear_description	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools	<u>Code_id</u>	<u>Description</u>	925	Pot
	<u>Subform_id</u>	<u>Description</u>											
	96	PAC - Crabs - Traps (Pots and square net)											
97	PAC - Crabs - Hands and Hand tools												
<u>Code_id</u>	<u>Description</u>												
925	Pot												
EFFORT_BY_GEAR	GEAR_ID												
	EFFORT_DETAIL	MIN_GR_DPTH MAX_GR_DPTH											
755	EFFORT_DETAIL	MIN_GR_DPTH MAX_GR_DPTH	The maximum gear depth (Effort_detail.Max_gr_dpth) must be greater than or equal to the minimum gear depth (Effort_detail.Min_gr_dpth)										
133	EFFORT_DETAIL	AVG_GR_DPTH	The average gear depth (Effort_detail.Avg_gr_dpth) must be greater than 1 and less than 550 meters.										
777	EFFORT_DETAIL	MIN_GR_DPTH	The minimum gear depth (Effort_detail.Min_gr_dpth) must be greater than or equal to 1 and less than or equal to 550 meters										
778	EFFORT_DETAIL	MAX_GR_DPTH	The maximum gear depth (Effort_detail.Max_gr_dpth) must be greater than or equal to 1 and less than or equal to 550 meters										

General rules - restrictions on data elements																					
Rule No.	Node(s)	Element(s)	Rule																		
3003	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>95</td><td>NL - Crabs</td></tr></table> ...and the fishing gear (Effort_by_gear.Gear_id) is one of:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>929</td><td>Japanese trap</td></tr><tr><td>932</td><td>Conical trap</td></tr><tr><td>933</td><td>Pyramidal trap</td></tr></table> then the capture of the bait protector indicator (Effort_detail.Bt_prtc_ind) is mandatory. Otherwise, the capture of the bait protector indicator (Effort_detail.Bt_prtc_ind) must be blocked.  Ref tables: Mv_subforms, Mv_Gear_Description, Mv_response	<u>Subform_id</u>	<u>Description</u>	95	NL - Crabs	<u>Code_id</u>	<u>Description</u>	929	Japanese trap	932	Conical trap	933	Pyramidal trap						
	<u>Subform_id</u>	<u>Description</u>																			
	95	NL - Crabs																			
<u>Code_id</u>	<u>Description</u>																				
929	Japanese trap																				
932	Conical trap																				
933	Pyramidal trap																				
EFFORT_BY_GEAR	GEAR_ID																				
	EFFORT_DETAIL	BT_PRTC_IND																			
3004a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></table> then only the following species (Catch.Specie_id) must be available and considered valid:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>4420</td><td>Crab, Dungeness</td></tr><tr><td>4424</td><td>Crab, Red King</td></tr><tr><td>4426</td><td>Crab, Red Rock</td></tr><tr><td>16638</td><td>Crab, Golden King</td></tr><tr><td>15537</td><td>Octopus, Giant Pacific</td></tr></table> Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools	<u>Code_id</u>	<u>Description</u>	4420	Crab, Dungeness	4424	Crab, Red King	4426	Crab, Red Rock	16638	Crab, Golden King	15537	Octopus, Giant Pacific
	<u>Subform_id</u>	<u>Description</u>																			
96	PAC - Crabs - Traps (Pots and square net)																				
97	PAC - Crabs - Hands and Hand tools																				
<u>Code_id</u>	<u>Description</u>																				
4420	Crab, Dungeness																				
4424	Crab, Red King																				
4426	Crab, Red Rock																				
16638	Crab, Golden King																				
15537	Octopus, Giant Pacific																				
	CATCH	SPECIE_ID																			



General rules - restrictions on data elements																																																													
Rule No.	Node(s)	Element(s)	Rule																																																										
3004b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> then only the following species (Catch.Specie_id) must be available and considered valid:  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1284</td><td>Cod, Atlantic</td></tr><tr><td>15210</td><td>Codfishes</td></tr><tr><td>1917</td><td>Crab, Green</td></tr><tr><td>1286</td><td>Crab, Jonah</td></tr><tr><td>1311</td><td>Crab, Norway King</td></tr><tr><td>1288</td><td>Crab, Queen Snow</td></tr><tr><td>1289</td><td>Crab, Red</td></tr><tr><td>1287</td><td>Crab, Rock</td></tr><tr><td>1290</td><td>Crab, Spider</td></tr><tr><td>15876</td><td>Crabs, Toad</td></tr><tr><td>1285</td><td>Crab, Unspecified</td></tr><tr><td>1298</td><td>Flounder, Winter</td></tr><tr><td>1385</td><td>Flounder, Yellowtail</td></tr><tr><td>1330</td><td>Grenadier, Roughhead</td></tr><tr><td>808</td><td>Groundfish</td></tr><tr><td>1309</td><td>Hake, White</td></tr><tr><td>1304</td><td>Halibut, Atlantic</td></tr><tr><td>1300</td><td>Halibut, Greenland</td></tr><tr><td>1312</td><td>Lobster</td></tr><tr><td>1325</td><td>Plaice, American</td></tr><tr><td>18398</td><td>Redfishes</td></tr><tr><td>14714</td><td>Sculpins (COTTIDAE)</td></tr><tr><td>1353</td><td>Skates</td></tr><tr><td>1985</td><td>Whelk</td></tr><tr><td>1383</td><td>Wolffish, Atlantic</td></tr><tr><td>814</td><td>Other</td></tr></table> Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1284	Cod, Atlantic	15210	Codfishes	1917	Crab, Green	1286	Crab, Jonah	1311	Crab, Norway King	1288	Crab, Queen Snow	1289	Crab, Red	1287	Crab, Rock	1290	Crab, Spider	15876	Crabs, Toad	1285	Crab, Unspecified	1298	Flounder, Winter	1385	Flounder, Yellowtail	1330	Grenadier, Roughhead	808	Groundfish	1309	Hake, White	1304	Halibut, Atlantic	1300	Halibut, Greenland	1312	Lobster	1325	Plaice, American	18398	Redfishes	14714	Sculpins (COTTIDAE)	1353	Skates	1985	Whelk	1383	Wolffish, Atlantic	814	Other
	<u>Subform_id</u>	<u>Description</u>																																																											
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1284	Cod, Atlantic																																																												
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	CATCH	SPECIE_ID																																																											

General rules - restrictions on data elements			
Rule No.	Node(s)	Element(s)	Rule
<b>758a</b>	CATCH	SPECIE_ID	<p>If the species caught is “Others” (Catch.Specie_id=814), then change the English description displayed from “Others” to “Others (Identify the species in the comment area)”.</p> <p>Ref table: Mv_species</p>
<b>759a</b>	CATCH	SPECIE_ID	<p>If the species caught is “Others” (Catch.Specie_id=814), then change the French description displayed from “Autres” to “Autres (Identifier l’espèce dans la zone commentaire)”.</p> <p>Ref table: Mv_species</p>
<b>760</b>	CATCH	SPECIE_ID REM	<p>If the species caught is “Others” (Catch.Specie_id=814), then the capture of a comment (Catch.Rem) is mandatory.</p> <p>Ref table: Mv_species</p>
<b>758b</b>	CATCH	SPECIE_ID	<p>If the species caught is “Crabs, Toad” (Catch.Specie_id=15876), then change the English description displayed from “Crabs, Toad” to “Crabs, Toad (Hyas-Lyres or spiders)”</p> <p>Ref table: Mv_species</p>
<b>759b</b>	CATCH	SPECIE_ID	<p>If the species caught is “Crabs, Toad” (Catch.Specie_id=15876), then change the French description displayed from “Crabes lyres” to “Crabes lyres (Hyas-violons ou araignées)”</p> <p>Ref table: Mv_species</p>

General rules - restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
3005a	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>94</td><td>MAR - Crabs</td></tr><tr><td>95</td><td>NL - Crabs</td></tr></table>  then the fisher must declare the quantity caught (kept and/or discarded at sea) <u>of the targeted species only</u> . Quantities caught of species not targeted will not be declared.  Species caught (Catch.Specie_id) will always be equal to the targeted species (Tgt_species.Specie_id).  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	94	MAR - Crabs	95	NL - Crabs
	<u>Subform_id</u>	<u>Description</u>							
	94	MAR - Crabs							
95	NL - Crabs								
TGT_SPECIES	SPECIE_ID								
CATCH	SPECIE_ID KEPT_WT DISC_WT NB_SPCMN_DISC								
3005b	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>93</td><td>GLF - Crabs</td></tr></table>  then the fisher must declare the quantity caught (kept and/or discarded at sea) <u>of the targeted species only</u> . Quantities caught of species not targeted will not be declared.  Species caught (Catch.Specie_id) will always be equal to the targeted species (Tgt_species.Specie_id).  <b>Exception:</b> If the targeted species is Rock crab (Tgt_species.Specie_id=1287) and the species caught is Green Crab (Catch.Specie_id=1917), then the capture of the kept weight (Catch.Kept_wt) must be <b>MANDATORY</b> and the discarded weight (Catch.Disc_wt) must be <b>BLOCKED</b> .  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	93	GLF - Crabs		
	<u>Subform_id</u>	<u>Description</u>							
	93	GLF - Crabs							
TGT_SPECIES	SPECIE_ID								
CATCH	SPECIE_ID KEPT_WT DISC_WT								

General rules - restrictions on data elements							
Rule No.	Node(s)	Element(s)	Rule				
40	CATCH	SPECIE_FRM_ID	Only the following 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 tables: Mv_species_product_form	Code_id	Description	4691	Round
Code_id	Description						
4691	Round						
762	CATCH	KEPT_WT DISC_WT NB_SPCMN_KEPT NB_SPCMN_DISC	In each occurrence of node CATCH, at least one quantity must be declared, so, at least one of these four elements (Catch.Nb_spcmn_kept, Catch.Kept_wt, Catch.Nb_spcmn_disc or Catch.Disc_wt) must contain a value greater than or equal to 0.				
763	CATCH	SPECIE_ID KEPT_WT DISC_WT NB_SPCMN_KEPT NB_SPCMN_DISC	If the species caught was not targeted (Catch.Specie_id <> Tgt_species.Specie_id), then at least one quantity must be <u>greater than</u> 0 (Catch.Kept_wt or Catch.Disc_wt or Catch.Nb_spcmn_kept or Catch.Nb_spcmn_disc)  Ref table: Mv_species				
	TGT_SPECIES	SPECIE_ID					
764	TGT_SPECIES	SPECIE_ID	If the species caught is the targeted species (Catch.Specie_id = Tgt_species.Specie_id) then the kept weight (Catch.Kept_wt) must contain a value greater than or equal to 0.  Ref table: Mv_species				
	CATCH	SPECIE_ID KEPT_WT					

General rules - restrictions on data elements									
Rule No.	Node(s)	Element(s)	Rule						
3006	GENERAL_INFO	SUBFORM_ID	<p>If the selected sub-form (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>96</td><td>PAC - Crabs - Traps (Pots and square net)</td></tr><tr><td>97</td><td>PAC - Crabs - Hands and Hand tools</td></tr></tbody></table> <p>then either quantity kept (Catch.Kept_wt <b>AND</b> Catch.Nb_spcmn_kept) or quantity discarded (Catch.Disc_wt <b>AND</b> Catch.Nb_spcmn_disc) or both (Kept and discarded) can be declared. At least one quantity (kept or discarded) must be specified in each occurrence of node CATCH.</p> <p>To declare a quantity kept, both elements (Catch.Kept_wt AND Catch.Nb_spcmn_kept) of the same occurrence of node CATCH must contain a value greater than or equal to 0. Both quantities must be 0 or both must be greater than 0.</p> <p>To declare a quantity discarded, both elements (Catch.Disc_wt AND Catch.Nb_spcmn_disc) of the same occurrence of node CATCH must contain a value greater than or equal to 0. Both quantities must be 0 or both must be greater than 0.</p> <p>Ref table: Mv_subforms</p>	<u>Subform_id</u>	<u>Description</u>	96	PAC - Crabs - Traps (Pots and square net)	97	PAC - Crabs - Hands and Hand tools
	<u>Subform_id</u>	<u>Description</u>							
96	PAC - Crabs - Traps (Pots and square net)								
97	PAC - Crabs - Hands and Hand tools								
CATCH	KEPT_WT NB_SPCMN_KEPT DISC_WT NB_SPCMN_DISC								
3007	GENERAL_INFO	SUBFORM_ID	<p>If the selected sub-form (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>92</td><td>QC - Crabs</td></tr></tbody></table> <p>...and the species caught (Catch.Species_id) is NOT the targeted species (Tgt_species.Specie_id) then the capture of the quantity kept (Catch.Kept_wt) must be blocked.</p>	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs		
	<u>Subform_id</u>	<u>Description</u>							
	92	QC - Crabs							
	CATCH	SPECIE_ID KEPT_WT							
EFFORT	FMA_ID								
TGT_SPECIES	SPECIE_ID								

General rules - restrictions on data elements																							
Rule No.	Node(s)	Element(s)	Rule																				
			<p><b>Exception#1:</b> If the targeted species is Rock crab (Tgt_species.Specie_id=1287) and the species caught is Spider crab (Catch.Specie_id=1290) and the Fishery Management Area (Effort.Fma_id) is one of:</p> <table><tr><th>FMA (FMA_ID)</th></tr><tr><td>12D1 (25699)</td></tr><tr><td>12D2 (25700)</td></tr><tr><td>12D3 (25701)</td></tr><tr><td>12D4 (25702)</td></tr><tr><td>12D5 (25703)</td></tr><tr><td>12D6 (25705)</td></tr><tr><td>12D7 (25704)</td></tr><tr><td>12F (25716)</td></tr><tr><td>12O (25710)</td></tr><tr><td>12Q (25719)</td></tr><tr><td>12W (25724)</td></tr><tr><td>12X (25725)</td></tr><tr><td>12Y (25726)</td></tr><tr><td>12Z (25727)</td></tr><tr><td>17B (25691)</td></tr><tr><td>17C1 (39569)</td></tr><tr><td>17C2 (39570)</td></tr></table> <p>...then the capture of the kept weight (Catch.Kept_wt) <b>must remain optional</b>.</p> <p><b>Exception#2:</b> If the targeted species is Queen Snow crab (Tgt_species.Specie_id=1288) and the species caught is Norway King crab (Catch.Specie_id=1311) and the Fishery Management Area (Effort.Fma_id) is one of:</p> <table><tr><th>FMA (FMA_ID)</th></tr><tr><td>Snow Crab Fishing Area 12B (Gulf of St. Lawrence) (43795)</td></tr></table> <p>...then the capture of the kept weight (Catch.Kept_wt) <b>must remain optional</b>.</p> <p>Ref tables: Mv_species, Mv_subforms, Mv_fma</p>	FMA (FMA_ID)	12D1 (25699)	12D2 (25700)	12D3 (25701)	12D4 (25702)	12D5 (25703)	12D6 (25705)	12D7 (25704)	12F (25716)	12O (25710)	12Q (25719)	12W (25724)	12X (25725)	12Y (25726)	12Z (25727)	17B (25691)	17C1 (39569)	17C2 (39570)	FMA (FMA_ID)	Snow Crab Fishing Area 12B (Gulf of St. Lawrence) (43795)
FMA (FMA_ID)																							
12D1 (25699)																							
12D2 (25700)																							
12D3 (25701)																							
12D4 (25702)																							
12D5 (25703)																							
12D6 (25705)																							
12D7 (25704)																							
12F (25716)																							
12O (25710)																							
12Q (25719)																							
12W (25724)																							
12X (25725)																							
12Y (25726)																							
12Z (25727)																							
17B (25691)																							
17C1 (39569)																							
17C2 (39570)																							
FMA (FMA_ID)																							
Snow Crab Fishing Area 12B (Gulf of St. Lawrence) (43795)																							

General rules - restrictions on data elements													
Rule No.	Node(s)	Element(s)	Rule										
3008	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species is Rock crab (Tgt_species.Specie_id=1287) then, each occurrence of nodes EFFORT_DETAIL must include a Catch node containing a declaration of the number of lobsters discarded (rejected at sea) (Catch.Specie_id=1312 and Catch.Nb_spcmn_disc greater than or equal to 0).  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs						
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
	TGT_SPECIES	SPECIE_ID											
EFFORT_DETAIL	(Each occurrence)												
CATCH	SPECIES_ID NB_SPCMN_DISC												
3009	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1287</td><td>Crab, Rock</td></tr><tr><td>15876</td><td>Crabs, Toad</td></tr></table> Then the capture of the date and time of arrival at wharf (Landing.Arr_dt) must be blocked.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1287	Crab, Rock	15876	Crabs, Toad
	<u>Subform_id</u>	<u>Description</u>											
	92	QC - Crabs											
<u>Code_id</u>	<u>Description</u>												
1287	Crab, Rock												
15876	Crabs, Toad												
TGT_SPECIES	SPECIE_ID												
LANDING	ARR_DT												

General rules - restrictions on data elements											
Rule No.	Node(s)	Element(s)	Rule								
3010	GENERAL_INFO	SUBFORM_ID	If the selected sub-form (General_info.Subform_id) is one of:  <table><tr><th><u>Subform_id</u></th><th><u>Description</u></th></tr><tr><td>92</td><td>QC - Crabs</td></tr></table> ...and the targeted species (Tgt_species.Specie_id) is one of :  <table><tr><th><u>Code_id</u></th><th><u>Description</u></th></tr><tr><td>1288</td><td>Crab, Queen Snow</td></tr></table> Then the capture of the date and time of arrival at wharf (Landing.Arr_dt) is mandatory.  Ref tables: Mv_subforms, Mv_species	<u>Subform_id</u>	<u>Description</u>	92	QC - Crabs	<u>Code_id</u>	<u>Description</u>	1288	Crab, Queen Snow
	<u>Subform_id</u>	<u>Description</u>									
	92	QC - Crabs									
<u>Code_id</u>	<u>Description</u>										
1288	Crab, Queen Snow										
TGT_SPECIES	SPECIE_ID										
	LANDING	ARR_DT									
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.
	<b>Files</b>
	Files containing DFO instructions are: DFO instructions_NAT_235-1.0_eng.pdf (English version) DFO instructions_NAT_235-1.0_fre.pdf (French version)

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

When the sub-form identified in the first column is selected, only the targeted species indicated in the second column 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	
92 - QC - Crabs	1287	Crab, Rock
93 - GLF - Crabs	1288	Crab, Queen Snow
95 - NL - Crabs	15876	Crabs, Toad
94 - MAR - Crabs	1286	Crab, Jonah
	1287	Crab, Rock
	1288	Crab, Queen Snow
	1289	Crab, Red
	1917	Crab, Green
	1919	Crab, Porcupine
96 - PAC - Crabs - Traps (Pots and square net)	4420	Crab, Dungeness
97 - PAC - Crabs - Hands and Hand tools	4424	Crab, Red King
	4426	Crab, Red Rock
	16638	Crab, Golden King

Ref tables: Mv\_subforms, Mv\_species

## Appendix B - Snow crab Fishery Management Areas

Code_id	Description	Code_id	Description
1644	Snow Crab Fishing Area 1	39767	Snow Crab Fishing Area 11S
39781	Snow Crab Fishing Area 2J South (South of 54'40"N)	39766	Snow Crab Fishing Area 11W
39780	Snow Crab Fishing Area 2JH (North of 54'40"N and South of 56'00"N)	43793	Snow Crab Fishing Area 12 (Gulf of St. Lawrence)
39779	Snow Crab Fishing Area 2H (North of 56'00"N)	43794	Snow Crab Fishing Area 12A (Gulf of St. Lawrence)
2021	Snow Crab Fishing Area 3A	43795	Snow Crab Fishing Area 12B (Gulf of St. Lawrence)
2023	Snow Crab Fishing Area 3B	43797	Snow Crab Fishing Area 12C (Gulf of St. Lawrence)
2025	Snow Crab Fishing Area 3C	43798	Snow Crab Fishing Area 12E (Gulf of St. Lawrence)
39743	Snow Crab Fishing Area 3BC	43799	Snow Crab Fishing Area 12F (Gulf of St. Lawrence)
2027	Snow Crab Fishing Area 3D	43800	Snow Crab Fishing Area 12 (Bay of Islands)
2029	Snow Crab Fishing Area 4	43801	Snow Crab Fishing Area 12 (Bay of St. George)
39782	Snow Crab Fishing Area 5A - Inner	43802	Snow Crab Fishing Area 12A (Newfoundland)
39783	Snow Crab Fishing Area 5A - Outer	43803	Snow Crab Fishing Area 12B (Newfoundland)
39784	Snow Crab Fishing Area 6A - Inner	43804	Snow Crab Fishing Area 12C (Newfoundland)
39785	Snow Crab Fishing Area 6A - Outer	43806	Snow Crab Fishing Area 12D (Newfoundland)
39786	Snow Crab Fishing Area 6B - Inner	43807	Snow Crab Fishing Area 12E (Newfoundland)
39787	Snow Crab Fishing Area 6B - Outer	43808	Snow Crab Fishing Area 12F (Newfoundland)
2037	Snow Crab Fishing Area 6C	43809	Snow Crab Fishing Area 12G (Newfoundland)
39745	Snow Crab Fishing Area 8A	43810	Snow Crab Fishing Area 12H (Newfoundland)
39746	Snow Crab Fishing Area 8B	1649	Snow Crab Fishing Area 13
39747	Snow Crab Fishing Area 8Bx	39762	Snow Crab Fishing Area OS8
39748	Snow Crab Fishing Area 8Bx North	1478	Snow Crab Fishing Area 14
39749	Snow Crab Fishing Area 8Bx South	1479	Snow Crab Fishing Area 15
39788	Snow Crab Fishing Area 9A - Inner	1480	Snow Crab Fishing Area 16
39789	Snow Crab Fishing Area 9A - Outer	4291	Snow Crab Fishing Area 16A
39751	Snow Crab Fishing Area MS	1481	Snow Crab Fishing Area 17
39752	Snow Crab Fishing Area MSex	1557	Snow Crab Fishing Area 19
39753	Snow Crab Fishing Area NS	1558	Snow Crab Fishing Area 20
39754	Snow Crab Fishing Area 3Lex	1559	Snow Crab Fishing Area 21
39755	Snow Crab Fishing Area 3Lex3N	39763	Snow Crab Fishing Area 22I Inner
39756	Snow Crab Fishing Area 3Lex3O	39764	Snow Crab Fishing Area 22O Outer
39757	Snow Crab Fishing Area 3L200	1561	Snow Crab Fishing Area 23
39758	Snow Crab Fishing Area 3N200	28899	Snow Crab Fishing Area 24E (east)
39759	Snow Crab Fishing Area 3O200	28902	Snow Crab Fishing Area 24W (west)
39760	Snow Crab Fishing Area 10A		
39761	Snow Crab Fishing Area 10B		
39790	Snow Crab Fishing Area 11E - Inner		
39791	Snow Crab Fishing Area 11E - Outer (Bob's Rock)		

## Appendix C - Rock crab Fishery Management Areas

Code_id	Description	Code_id	Description
25696	Rock Crab Fishing Area 12A	2071	Lobster Fishing Area 01
25693	Rock Crab Fishing Area 12B	1652	Lobster Fishing Area 02
25694	Rock Crab Fishing Area 12C	1653	Lobster Fishing Area 03
25699	Rock Crab Fishing Area 12D1	2073	Lobster Fishing Area 04a
25700	Rock Crab Fishing Area 12D2	1654	Lobster Fishing Area 04b
25701	Rock Crab Fishing Area 12D3	1655	Lobster Fishing Area 05
25702	Rock Crab Fishing Area 12D4	2075	Lobster Fishing Area 06
25703	Rock Crab Fishing Area 12D5	2077	Lobster Fishing Area 07
25705	Rock Crab Fishing Area 12D6	2079	Lobster Fishing Area 08
25704	Rock Crab Fishing Area 12D7	39674	Lobster Fishing Area 09a
25716	Rock Crab Fishing Area 12F	39675	Lobster Fishing Area 09b
25710	Rock Crab Fishing Area 12O	2083	Lobster Fishing Area 10
25719	Rock Crab Fishing Area 12Q	2085	Lobster Fishing Area 11
25724	Rock Crab Fishing Area 12W	2087	Lobster Fishing Area 12
25725	Rock Crab Fishing Area 12X	2089	Lobster Fishing Area 13a
25726	Rock Crab Fishing Area 12Y	2091	Lobster Fishing Area 13b
25727	Rock Crab Fishing Area 12Z	2093	Lobster Fishing Area 14a
25682	Rock Crab Fishing Area 16A	1576	Lobster Fishing Area 23
25688	Rock Crab Fishing Area 16B	1577	Lobster Fishing Area 24
25683	Rock Crab Fishing Area 16C	1578	Lobster Fishing Area 25
25684	Rock Crab Fishing Area 16D	1579	Lobster Fishing Area 26a
25685	Rock Crab Fishing Area 16E1	1580	Lobster Fishing Area 26b
25686	Rock Crab Fishing Area 16E2	1581	Lobster Fishing Area 27
25687	Rock Crab Fishing Area 16F	1583	Lobster Fishing Area 29
25689	Rock Crab Fishing Area 16G	1585	Lobster Fishing Area 31a
25690	Rock Crab Fishing Area 17A	1586	Lobster Fishing Area 31b
25691	Rock Crab Fishing Area 17B	1587	Lobster Fishing Area 32
39569	Rock Crab Fishing Area 17C1	1589	Lobster Fishing Area 34
39570	Rock Crab Fishing Area 17C2	1590	Lobster Fishing Area 35
		1591	Lobster Fishing Area 36

## Appendix D - Jonah crab Fishery Management Areas

Code_id	Description
1587	Lobster Fishing Area 32
1588	Lobster Fishing Area 33
1589	Lobster Fishing Area 34
1593	Lobster Fishing Area 38
1595	Lobster Fishing Area 41

## Appendix E - Toad crab Fishery Management Areas (Hyas)

Code_id	Description
4306	Crab Toad/Spider Fishing Area 12
4307	Crab Toad/Spider Fishing Area 12A
25755	Crab/Toad Spider Fishing Area CN-1
25754	Crab/Toad Spider Fishing Area CN-2
25753	Crab/Toad Spider Fishing Area CN-3
25752	Crab/Toad Spider Fishing Area CN-4
1576	Lobster Fishing Area 23
1577	Lobster Fishing Area 24
1578	Lobster Fishing Area 25
1579	Lobster Fishing Area 26a
1580	Lobster Fishing Area 26b

## Appendix F - List of valid fishing gears per sub-form

When the sub-form identified in the first column is selected, only the fishing gears indicated in the second column 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
92 - QC - Crabs	929 Japanese trap
93 - GLF - Crabs	932 Conical trap
95 - NL - Crabs	933 Pyramidal trap
94 - MAR - Crabs	932 Conical trap 37802 Top entry lobster trap 37836 Lobster trap
96 - PAC - Crabs - Traps (Pots and square net) 97 - PAC - Crabs - Hands and Hand tools	925 Pot 3398 Ring net 934 Dip net 954 Hand and hand held tools

Ref tables: Mv\_subforms, Mv\_gear\_description

## Appendix G - List of valid administrative regions per sub-form

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

Administrative region vs Sub-forms	
General_info.Subform_id - Sub-form name	General_info.Reg_id - Region name
92 - QC - Crabs	1006 Quebec
93 - GLF - Crabs	1014 Gulf
95 - NL - Crabs	1002 Newfoundland
94 - MAR - Crabs	1004 Maritimes
96 - PAC - Crabs - Traps (Pots and square net) 97 - PAC - Crabs - Hands and Hand tools	1010 Pacific

Ref tables: Mv\_subforms, Mv\_dfo\_region