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Olympic Data Feed

ODF Rowing Data Dictionary

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1 Introduction

1.1 This document

This document includes the ODF Rowing Data Dictionary. This Data Dictionary refines the messages described in the ODF Central Messages Interface Document and ODF Sport Messages Interface Document specifically for Rowing, as well as defines the codes used in these messages.

1.2 Objective

The objective of this document is to provide a complete and formal definition of the ODF Rowing Data Dictionary, with the intention that the information message producer and the message consumer can successfully interchange the information as the Rowing competition is run.

1.3 Main Audience

The main audience of this document is the IOC as the ODF promoter, ODF users such as the World News Press Agencies, Rights Holding Broadcasters and International Sports Federations.

1.4 Glossary

The following abbreviations are used in this document

- **IF** – International Federation
- **IOC** – International Olympic Committee
- **NOC** – National Olympic Committee
- **ODF** – Olympic Data Feed
- **ODF-RT** – Olympic Data Feed Real Time
- **RSC** – Results System Codes
- **RO** – Rowing
- **WNPA** – World News Press Agencies

1.5 Related Documents

Document Reference	Document Title	Document Description
ODF/INT001	ODF Message Transmission Document	This document describes the technical standards to be used to transfer ODF messages between the message generators and the final ODF



		users
ODF/COD001	ODF Common Codes Document	This document describes the ODF codes used across the rest of the ODF documents
ODF/INT003	ODF Central Messages Interface Document	This document describes the ODF central messages
ODF/INT004	ODF Sport Messages Interface Document	This document describes the ODF sport messages, generated independently by each sport



2 Overall Perspective

2.1 Objective

The objective of this document is to focus on the formal definition of the ODF Rowing Data Dictionary.

2.2 End to End data flow

The general rules as described in the documents referenced in the section 1.5 will have to be considered for a complete and formal definition. It is especially important the ODF Central Messages Interface Document and ODF Sport Messages Interface Document, since this ODF Rowing Data Dictionary is a particularization of those documents.

In the following sections, for each ODF sport message it will be explained in further detail those elements, attributes, codes, ODF header, the trigger and frequency for each message generation, as well as the sort of the message that are particular in the case of Rowing.

Any ODF Rowing message should follow all the previous definitions in order to be considered as an ODF compliant message.



3 Codes

Several codes are used in the definition of the messages in this document. Any code will be referenced the following way:

CC @CodeEntity

CodeEntity is the name of the entity that identifies a particular set of codes.

The following table describes the codes entities used in document sorted by name, indicating whether the set of values can be found in the ODF Common Codes Document, or listed in the table itself, otherwise.

Code Entity	Code Entity Set of Values	
CC @BoatStatus	Code	Description
	F	finished
	R	Running
	ST	at Start
CC @IRM	Code	Description
	BUW	Boat under weight
	DNF	Did not finish
	DNS	Did not start
	DSQ	Disqualified
	ELM	Eliminated
	EXC	Excluded
CC @Position	Code	Description
	b	bow
	s	stroke
	c	cox
	2	Seat 2
	3	Seat 3
	4	Seat 4
	5	Seat 5
	6	Seat 6
7	Seat 7	
CC @QualificationMark	Code	Description
	FA	Final A
	FB	Final B
	FC	Final C
	FD	Final D
	FE	Final E
	FF	Final F
	Q	Quarterfinal
	R	Repechage
	S_A/B	Semifinal A/B
	S_C/D	Semifinal C/D
	S_E/F	Semifinal E/F
S_D/E	Semifinal D/E	



	S_A/B/C	Semifinal A/B/C
	?	Progression by time
CC @RecordCode	Defined in ODF Common Codes Document See entity Record Code The entity's attribute to be used is Code	
CC @RecordType	Defined in ODF Common Codes Document See entity Record Type <ul style="list-style-type: none"> • The entity's attribute to be used is Code • It will be related to Discipline 	
CC @ResultType	Code	Description
	IRM_TIME	IRM status
	TIME	Time
CC @TypeCompetition	Code	Description
	IR	International regatta
	OG	Olympic Games
	WC	World Cup
	WCH	World Championships



4 Rowing Data Extension

4.1 General Issues

The following sections extend and complete the information to be sent in each of the messages for this particular discipline, if some particularization is needed. If there are special considerations for any of the message types that have to be sent for this discipline, then they should be considered in the following sections. If nothing is mentioned for a particular message type, then the general rules, as defined either in the ODF Central Messages Interface Document or ODF Sport Messages Interface Document, should be respected for the messages described in the chapter 4 of this document.

4.1.1 ODF header

Regarding to the ODF header values, you should also follow the description in the ODF Central Messages Interface Document or ODF Sport Messages Interface Document. However, the following attributes could be refined for each message type regarding to the header values:

- ODF Header: DocumentCode.

4.1.2 Attributes Definition

The attributes types are explained in the section “5.1.2. Attributes Definition” of the ODF Central Messages Interface Document. Please, refer to that document for further information



5 Point in Time

5.1 Point in Time Applicable Messages

The following table is a full list of all ODF messages and describes the list of messages used in Rowing, as well as the category of each message, which identifies if the message structure definition can be found either in the ODF Sport Messages Interface Document or ODF Central Messages Interface Document.

- The column “Message type” indicates the DocumentType that identifies a message
- The column “Message name” is the message name identified by the message type
- The column “Message documented” indicates the document where you should go to have the general definition for a particular Message type
- The column “Message used in this sport” indicates whether a message is used in particular for this sport or not. If it is not ticked (X), then the message should not be used for this sport.
- The column “Message extended in this document” indicates whether a particular message has extended definition in regards to those that are general for all sports. Any message ticked (X) in this column should also be ticked in the “Message used in this sport column”. If one message has extended definition, it should be considered both, the extensions as well as the general rules for one message that is used in the case of the sport. However, if one particular message is not extended, then it should follow the general definition rules.

Message Type	Message name	Message documented	Message used in this sport	Message extended in this document
DT_SCHEDULE	Competition schedule	Central	X	
DT_SCHEDULE_UPDATE	Competition schedule update	Central	X	
DT_PARTIC	List of participants by discipline	Central	X	X
DT_PARTIC_UPDATE	List of participants by discipline update	Central	X	X
DT_PARTIC_TEAMS	List of teams	Central	X	
DT_PARTIC_TEAMS_UPDATE	List of teams update	Central	X	
DT_PARTIC_HORSES	List of equestrian horses	Central		
DT_PARTIC_HORSES_UPDATE	List of horses update	Central		
DT_MEDALS	Medal standings	Central	Global	
DT_MEDALLISTS_DAY	Medallists of the day	Central	Global	
DT_HISTORIC_RECORD	Historical records	Central	X	X
DT_HIST_REC_UPDATE	Historical records update	Central	X	X



DT_GLOBAL_GM	Global good morning	Central	Global	
DT_GLOBAL_GN	Global good night	Central	Global	
DT_START_LIST	Start List	Sports	X	X
DT_RESULT	Event Unit Results	Sports	X	X
DT_PHASE_RESULT	Phase Results	Sports		
DT_CUMULATIVE_RESULT	Cumulative Results	Sports	X	X
DT_POOL_STANDING	Pool Standings of group in a team competition	Sports		
DT_RANKING	Event Final ranking	Sports	X	X
DT_STATS	Statistics table	Sports		
DT_MEDALLISTS	Medallists of one event	Sports	X	X
DT_MEDALLISTS_DISCIPLINE	Medallists by discipline	Sports	X	
DT_RECORD	Records	Sports	X	X
DT_COMMUNICATION	Official Communication	Sports	X	
DT_BRACKETS	Brackets	Sports		
DT_GM	Discipline/venue good morning	Sports	X	X
DT_GN	Discipline/venue good night	Sports	X	X
DT_FED_RANKING	Federation Ranking	Sports		
DT_CONFIG	Discipline configuration	Sports	X	X
DT_WEATHER	Event Unit Weather conditions	Sports		
DT_SERIAL	List of Current PiT Serial	Sports	X	



5.1.1 List of participants by discipline/ List of participants by discipline update

5.1.1.1 Description

This message is the List of participants by discipline (and the update), for that discipline it is the list of athletes and historical athletes, as described in the ODF Central Messages Interface Document.

5.1.1.2 Header Values

The definition in the ODF Central Messages Interface Document is valid

5.1.1.3 Trigger and Frequency

The definition in the ODF Central Messages Interface Document is valid And in the case when the venue results becomes owner of data.

5.1.1.4 Message Structure

The optional elements defined for this message in the ODF Central Messages Interface Document that should be included in the case of Rowing are:

- EventEntry

In the next section (message values), there is a more detailed definition.

5.1.1.5 Message Values

The following table lists the “List of participants by discipline/ update” optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Participant	GivenName	M	S(25)	Given name in WNPA format (mixed case)
	BirthDate	O	YYYYMMDD	Date of birth for the athlete Send when this information is available
	Height	O	N(3) 999	Height in centimetres for the athlete Send when this information is available
	Weight	O	N(3) 999	Weight in kilograms for the athlete Send when this information is available
	MainFunctionId	O	CC @Function	Main function
Participant /Discipline	International FederationId	O	S(16)	FISA ID (competitor's federation number for the discipline). It will be included

The following table describes in more detail the EventEntry element in the case of Rowing.

Element: EventEntry				
Type	Code	Pos	Value	Description
E_ENTRY	E_POSITION	N(1) 0	CC @Position	For @Type: Send proposed type
				For @Code: Send proposed type
				For @Pos: Send always 1
				For @Value: (see codes section) Send the code for the position.
	E_SUBSTITUTE		S(1)	For @Type: Send proposed type
				For @Code: Send proposed type



				For @Pos: Do not send anything
				For @Value: Send "Y" if the competitor it's a alternative or N if it is not more.

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
E_ENTRY /E_POSITION	The Crew position	As soon as this information is available. (this information can be sent in both messages) Just for teams events
E_ENTRY /E_SUBSTITUTE	Reserve	As soon as this information is available. Only for the athletes. (this information can be sent in both messages)

5.1.1.6 Message sort

Please, follow the general definition.



5.1.2 Historical records/ Historical records update

5.1.2.1 Description

This message is the “Historical records” (and the update) message as described in the ODF Sport Messages Interface Document.

5.1.2.2 Header Values

Please, follow the general definition.

5.1.2.3 Trigger and Frequency

Please, follow the general definition.

5.1.2.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- Competitor/RecordData
- Competitor/Composition/Athlete/RecordData

5.1.2.5 Message Values

The following table lists the Historical records optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
RecordData (For Teams and individuals records)	Country	M	CC @Country	Country code where the record was broken
	Place	M	S(40)	The place (town or city) where the record was broken
	Date	M	YYYYMMDD	The date where the record was broken.
	Event	M	CC @TypeCompetition	Type of competition where it was this time

5.1.2.6 Message sort

Please, follow the general definition.



5.1.3 Start List

5.1.3.1 Description

This message is the Start List message as described in the ODF Sport Messages Interface Document.

5.1.3.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet).

5.1.3.3 Trigger and Frequency

- 10 minutes after the draw is approved
- 10 minutes after a change is approved
- 10 minutes after the Start List for the next round is approved
- After any change

5.1.3.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- UnitDateTime (following the general rules for this element)
- UnitInfo
- Start /Competitor /EventUnitEntry.
- Start /Competitor /Composition /Athlete /EventUnitEntry.

In the next section (message values), there is a more detailed definition.

5.1.3.5 Message Values

The following table lists the Start List optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Start	StartOrder	O	Numeric	The Lane number/Boat number. The lanes will be Re-allocation, if the weather creates unfair or unrowable conditions.
	SortOrder	M	Numeric	
Start /Competitor /Composition /Athlete	Code	M	S(20) with no leading zeroes	Athlete ID
	Order	M	Numeric	
	Bib	O	S(3)	Bib number. Although this attribute is optional, it will be updated and informed as soon as this information is known. Example: 8, 10 ...

The following table describes in more detail the Competitor /EventUnitEntry element in the case of Rowing.

Element: Competitor /EventUnitEntry			
Type	Code	Value	Description
EUE_RO	RO_IRM	CC @IRM	For @Type: Send proposed type



Element: Competitor /EventUnitEntry			
Type	Code	Value	Description
			For @Code: Send proposed code for the Uniform
			For @Value: Indicator as supplied by OVR for DNS or other possible results before the race.

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
EUE_RO /RO_IRM	Invalid result mark supplied by OVR before the race.	As soon as this information is available

The following table describes in more detail the EventUnitEntry element in the case of Rowing, which should be used in the case of time Trial event units.

Element: Start /Competitor /Composition /Athlete /EventUnitEntry				
Type	Code	Pos	Value	Description
EUE_RO	RO_POSITION	N(1) 0	CC @Position	For @Type: Send proposed type
				For @Code: Send proposed type
				For @Pos: Send always 1
				For @Value: (see codes section) Send the code for the position.
	RO_IRM		CC @IRM	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos : Do not send anything
				For @Value: Indicator as supplied by OVR for DNS or other possible results before the race.

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
EUE_RO /RO_POSITION	The Crew position	As soon as this information is available
		Not for single events
EUE_RO /RO_IRM	Invalid result mark supplied by OVR before the race.	As soon as this information is available

5.1.3.6 Message sort

Please, follow the general definition.



5.1.4 Event Unit Results

5.1.4.1 Description

This message is the Event Unit Results message as described in the ODF Sport Messages Interface Document.

5.1.4.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet).

5.1.4.3 Trigger and Frequency

Please, follow the general definition, taking also into account the following

- 2 minutes after the results are approved
- After any change

5.1.4.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- UnitDateTime (following the general rules for this element)
- UnitInfo
- Competitor /ExtendedResults /ExtendedResult
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

5.1.4.5 Message Values

The following table lists the Event Unit Results optional and/or extended attributes (defined in the ODF Sport Messages Interface Document), as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	String	Rank of the competitor in the corresponding event unit. This attribute is optional.
	RankEqual	O	Y	It must send always that the attribute Rank is send, it identify if a rank has been equalled.
	ResultType	O	CC @ResultType	Result type. (see codes section)
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM (see codes section)
	Qualification Mark	O	CC @Qualification Mark	The code which gives an indication on the progression of the competitor for the next round of the competition. Don't send for the final.
	Result	O	MM:SS.tt 99:90.00	Result for the particular event unit.
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular event unit, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank.
RecordIndicators /RecordIndicator	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1.
	Code	M	CC @RecordCode	Code which describes the record broken by the result value (e.g. "ROM012000").



Element	Attribute	M/O	Value	Comments
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB").

The following table describes in more detail the UnitInfo element in the case of Rowing.

Element: UnitInfo			
Type	Code	Value	Description
	RO_REDFLAG	S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Value: Send Y or N to know if the run is in Red flag
	RO_LINEPOS	N(1) 0	For @Type: Send proposed type For @Code: Send proposed code For @Value: This attribute indicates the number of competitors that will go to the next phase. That means the numbers of competitor that have been qualify.

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
UI_RO /RO_REDFLAG	Use when the race is in Red Flag's status.	If apply.
UI_RO /RO_LINEPOS	Is the Index, after which a line would be draw.	When was available.

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element for team's events and Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element for single's events.

Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_QUALIFICATION	RO_PHASE			String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Indicates Phase where the boat qualifies from here.
	RO_UNIT			String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Indicates Heat code where the boat qualifies from here.
ER_RESULTS	RO_REDFLAG			S(1)	For @Type: Send proposed type For @Code: Send proposed code



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Pos: Do not send anything
					For @Value: Send Y if the race is red flag or N if it has not more
	RO_FALSESTARTS			N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Number of false starts made
	RO_YELLOWCARDS			N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Number of yellow cards received
	RO_INTERMEDIATE		N(1) 0	MM:SS.tt 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Intermediate point where the competition has taken place (1,2..)
					For @Value: Cumulative time after the intermediate point
	RO_RANK			String	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Athlete's rank after the intermediate point
	RO_ERANK			Y	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: It must send always that the element _RANK is send, it identify if a rank has been equalled.
	RO_DIFF			+M:SS.tt +9:90.00 Or 0.00 for leader	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: The difference time between that competitor and the leader until that intermediate point.



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
		RO_IDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Team order within classification. Usually it is the same like rank. It is necessary because it is possible the competitor don't have a rank.
	RO_SECTION		N(1) 0	MM:SS.tt 99:90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the section, from 2 to the total number of sections. For @Value: Time for that Intermediate point (not send for the first intermediate point)
		RO_RANK		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Athlete's rank for that Intermediate point (not send for the first intermediate point)
		RO_ERANK		Y	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: It must send always that the element _RANK is send, it identify if a rank has been equalled.
	RO_PHOTO			S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: To know if the competitor's final result was decided by photo. Send Y for Evaluated Status. Send P for Pending Status

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_QUALIFICATION /RO_PHASE ER_QUALIFICATION /RO_UNIT	Indicates where the boat progress from here. (Printable Version is in QualificationMark)	If apply
ER_RESULTS /RO_REDFLAG	There is a red flag for this lane	If apply
ER_RESULTS	Number of false starts made	If apply



/RO_FALSESTARTS		
ER_RESULTS /ER_YELLOWCARDS	Number of yellow cards received	If apply
ER_RESULTS /RO_INTERMEDIATE	Are points in the race where we have the competitor's results (time, rank, difference).	Always
RO_INTERMEDIATE /RO_IDX	Team order within classification.	Always
ER_RESULTS /RO_SECTION	Section between two intermediate points. Example: Section 1 is the section between start the race and intermediate 1 point.	Always
ER_RESULTS /RO_PHOTO	It is a flag for know if it is necessary made a photo for this competitor.	If apply

5.1.4.6 Message sort

Please, follow the general definition.



5.1.5 Cumulative Results

5.1.5.1 Description

This message is the Cumulative Results message as described in the ODF Sport Messages Interface Document.

5.1.5.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet). The DocumentCode should be [DD][G][EEE]000 and the DocumentSubtype should be [DD][G][EEE][P]00).

5.1.5.3 Trigger and Frequency

Please, follow the general definition.

5.1.5.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- Competitor /ExtendedResults /ExtendedResult
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

5.1.5.5 Message Values

Now, it is redefined the attributes of the optional elements in the generic message that are necessary in the case of Rowing.

Element	Attribute	M/O	Value	Comments
CumulativeResult	Rank	O	String	Rank over all athletes who have competed.
	RankEqual	O	Y	It must send always that the attribute Rank is send, it identify if a rank has been equalled.
	SortOrder	M	Numeric	Competitor order within event
CumulativeResult /RecordIndicators /RecordIndicator	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1.
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /Result value (e.g. "ROM012000").
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB").
ResultItems /ResultItem	Phase	M	CC @Phase	This information came from common codes
	Unit	M	CC @Unit	
Result	Rank	O	String	For Heats and Repechage, the rank should be <ul style="list-style-type: none"> • Overall: by race rank, then by time • Overall: IRMs as per sport rule For Semifinals, the rank should be <ul style="list-style-type: none"> • Semifinal A and B: race rank, then by time • Semifinal C and D: race rank, then by time • Overall: IRMs as per sport rule. For Finals, the rank should be <ul style="list-style-type: none"> • Final A: race rank (including DNS and DNF) • Final B: race rank(including DNS and DNF) • Final n: race rank(including DNS and DNF) • Overall: IRMs (other the DNS and DNF) as per sport rule
	RankEqual	O	Y	It must send always that the attribute Rank is send, it identify if a rank has been equalled.
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding event unit
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM, or both time and IRM (see codes section)



Element	Attribute	M/O	Value	Comments
	QualificationMark	O	CC @QualificationMark	Codes vary based on progression conditions for a particular event unit.
	Result	O	MM:SS.tt 99:90.00	Total Time for the particular event unit.
	SortOrder	M	Numeric	Competitor order within event unit
CumulativeResult /ResultItems /ResultItem /Result /RecordIndicators /RecordIndicator (result's record indicator)	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1. It just applies to event units
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /ResultItems /ResultItem /Result value (e.g. "ROM012000"). It just applies to event units
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB"). It just applies to event units

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element for team's events and Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element for single's events.

Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_RO	RO_TIME_SORT			Numeric	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything.
					For @Value: Send the sort order by time in the event

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_RO /RO_TIME_SORT	Sort order by time in the event	Always

5.1.5.6 Message sort

Please, follow the general definition.



5.1.6 Event Final Ranking

5.1.6.1 Description

This message is the Event Final Ranking message as described in the ODF Sport Messages Interface Document.

In the case of Rowing, the message has to be sent for all the competition events, as listed in the header values section.

5.1.6.2 Header Values

The DocumentCode attribute in the ODF header will be sent according for all the competition events to the ODF Common Codes document (header values sheet).

5.1.6.3 Trigger and Frequency

Please, follow the general definition.

5.1.6.4 Message Structure

Please, follow the general definition.

5.1.6.5 Message Values

The following table lists the Event Final Ranking optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	String	Final rank of the competitor in the corresponding event .It is optional because the competitor can be disqualified
	RankEqual	O	Y	It must send always that the attribute Rank is send, it identify if a rank has been equalled.
	ResultType	O	CC @ResultType	Result type, for the corresponding event unit
	IRM	O	CC @IRM	Send just if the competitor has been disqualified or is not even know.
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the competitors at the end of the event, if they were to be presented. If has a rank: sort by rank, NOC. If hasn't rank: sort DNF, DNS, EXL, DSQ.

5.1.6.6 Message sort

Please, follow the general definition



5.1.7 Event's Medallists

5.1.7.1 Description

This message is the Event's Medallists message as described in the ODF Sport Messages Interface Document.

In the case of Rowing, the message has to be sent for all the competition events, as listed in the header values section.

5.1.7.2 Header Values

The DocumentCode attribute in the ODF header will be sent according for all the competition events to the ODF Common Codes document (header values sheet).

5.1.7.3 Trigger and Frequency

In the case of Rowing, the message has to be sent 2 minutes after the results of the final race are approved.

5.1.7.4 Message Structure

Please, follow the general definition.

5.1.7.5 Message Values

Please, follow the general definition.

5.1.7.6 Message sort

Please, follow the general definition.



5.1.8 Records

5.1.8.1 Description

This message is the Records message as described in the ODF Sport Messages Interface Document.

5.1.8.2 Header Values

Please, follow the general definition.

5.1.8.3 Trigger and Frequency

Please, follow the general definition.

5.1.8.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- Competitor/RecordData
- Competitor/Composition/Athlete/RecordData

5.1.8.5 Message Values

The following table lists the Records optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
RecordEntry /RecordData	ResultType	M	CC @ResultType	It will be a result categorization, to indicate whether the result that is for the record is a distance, a time, etc.
	Result	M	MM:SS.tt 99:99.90	The result of the competitor for the record
RecordData (For Teams and individuals records)	Country	M	CC @Country	Country code where the record was broken
	Place	M	S(40)	The place (town or city) where the record was broken
	Date	M	YYYYMMDD	The date where the record was broken.
	Time	M	MillisTime	Time when was broken the record. Mandatory for the current records.
	Event	M	CC @TypeCompetition	Type of competition where it was this time

5.1.8.6 Message sort

Please, follow the general definition.



5.1.9 Discipline/venue good morning

5.1.9.1 Description

This message is the Discipline/venue good morning message as described in the ODF Sport Messages Interface Document.

5.1.9.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the discipline/venue pairs as described in the ODF Common Codes document.

5.1.9.3 Trigger and Frequency

Please, follow the general definition.

5.1.9.4 Message Structure

Please, follow the general definition.

5.1.9.5 Message Values

Please, follow the general definition.

5.1.9.6 Message sort

Please, follow the general definition.



5.1.10 Discipline/venue good night

5.1.10.1 Description

This message is the Discipline/venue good night message as described in the ODF Sport Messages Interface Document.

5.1.10.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the discipline/venue pairs as described in the ODF Common Codes document.

5.1.10.3 Trigger and Frequency

Please, follow the general definition.

5.1.10.4 Message Structure

Please, follow the general definition.

5.1.10.5 Message Values

Please, follow the general definition.

5.1.10.6 Message sort

Please, follow the general definition.



5.1.11 Discipline Configuration

5.1.11.1 Description

This message is the Event unit configuration message as described in the ODF Sport Messages Interface Document.

5.1.11.2 Header Values

Please, follow the general definition.

5.1.11.3 Trigger and Frequency

- Day INFO operations start.
- When this information was available.

5.1.11.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- ExtendedConfigItem

5.1.11.5 Message Values

Send the attributes and codes according to the tables described in this section.

The following table lists the Discipline configuration optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Rowing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Config	Gender	M	CC @Gender	
	Event	M	CC @Event	
	Phase	O	CC @Phase	
	Unit	O	CC @Unit	

The following table describes in more detail the Competition ExtendedConfig element.

Element: ExtendedConfig						
Type	Code	ExtendedConfig Item Code	Pos	Value	Description	
EC_RACE	RO_MAXLANES (Send by phase)			N(1) 0	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: Do not send anything	
					For @Value: Max number of lanes.	
	RO_RDISTANCE (Send by Event)				Number	For @Type: Send proposed type
						For @Code: Send proposed code
					For @Pos: (see codes section)	
					For @Value: Send the total distance for the race in m.	
		RO_T_INTER		N(2) 90	For @Type: Send proposed type	
					For @Code: Send proposed code	



Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
					For @Pos: Do not send anything
					For @Value: Total intermediate points in the race(not including the intermediate 0)
	RO_INTERMEDIATE (Send by Event)		N(1) 0	N(5) 99990	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send the number that identifies the intermediate point, from 1 to n. Where n is when finish the race.
					For @Value: Send distance in m.
		RO_IS_LAST		S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything.
					For @Value: Send "F". Only send for the last Intermediate point (when finish the race).
	RO_SECTION (Send by Event)		N(1) 0	N(5) 99990	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: The number that identifies the section, from 2 to the total number of sections
					For @Value: Send distance in m.
		RO_START		N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when start the section.
		RO_FINISH		N(1) 0 Or S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when finish the section. For sector last section, send "F".
EC_RO	RO_UNIT_CODE (Send by Event unit)			String	For @Value: Max number of lines.
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: The Unit Code is the heat code for this race. Usually the heat number: "1", "2",



Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
					"3", "4", ... or "A", "B", "C", "D", "E", ... or "A/B 1", "C/D 2"
	RO_MATCH_NUMBER (Send by Event unit)			N(3) 990	For @Value: Max number of lines. For @Code: Send proposed code For @Pos: Do not send anything For @Value: Race number is a sequential number for that race in the schedule (but NOT the order of the race, although under normal circumstances it is identical).
	RO_TIMETRIAL (Send by Event unit)			S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send "Y" if the race is held as time trial
	RO_LANE0 (Send by Event unit)			S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send "Y" if the race has a Lane 0.
EC_QUALIFICATION	RO_QUALRULES (Send by Event unit)			String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Progression rule text (long version).
		RO_SHORTV		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Progression rule text (short version).
	RO_RANK_QUALQFN RO_RANK_QUALREP		N(1) 0	String	For @Type: Send proposed type For @Code: Send proposed code for the qualification rule. RO_RANK_QUALQFN is the code that indicates the qualification for quarterfinal based on rank. Only send for single sculls event RO_RANK_QUALREP is the code that indicates the qualification for repechage based on rank. Don't send for single sculls event RO_RANK_QUALSFN_y is the code that indicates the qualification for
	RO_RANK_QUALSFN_y Where y=("A/B","C/D",...) RO_RANK_QUALFNL_y Where y=("A","B","C",...) (Send by event unit)				



Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
					<p>semifinal based on rank. Where y it is the code for that phase. Example: For Pair event y = "A/B", "C/D", "E/F"</p> <p>RO_RANK_QUALFNL_y is the code that indicates the qualification for final based on rank. Where y it is the code for that phase. Example: For Pair event y = "A", "B", "C", "D", "E", "F"</p> <p>For @Pos: Send 1 to indicate first rank included in the @Code rule. Send 2 to indicate last rank included in the @Code rule.</p> <p>For @Value: Send the rank according to @Code rule and @Pos</p>

For the table above, we have the following additional/summary information

Type /Code	Description	Expected
EC_RACE /RO_MAXLANES	Highest number of lanes (actually only needed if higher than "usual", ie. 6 (RO))	When was available.
EC_RACE /RO_RDISTANCE	Race description(total race distance, total number of intermediate points)	When was available.
EC_RACE /RO_INTERMEDIATE	<p>Are points in the race where taken results, from 0 to n. Where 0 is when start the race (at this point does not send results only to have a reference of where to start) and n is when finish the race. The finish itself is considerate an intermediate point. Example if you want to take results in the middle and end of the race. You will have 3 intermediate points: 0 when start the race, but this will not be sent. 1 in the middle of the race. 2 at the end of the race, in this case send a "CF_IS_LAST" with "F".</p>	when it is available
EC_RACE /RO_SECTION	<p>Are section distance between two points (intermediate), from 1 and n. Where n is the final point for that section. Example: Section 1 is the section between start the race and intermediate point 1, in general the Section n is the section between Point n-1 and n).</p>	<p>when it is available</p> <p>It is not necessary to send the section 1 distance, because section 1 will be the same as intermediate 1</p>
EC_RO /RO_UNIT_CODE	The race code for each event unit.	When was available
EC_RO /RO_MATCH_NUMBER	The race number for each event unit.	When was available.
EC_RO /RO_TIMETRIAL	If the race is held as a time trial, then this flag is set to Y- in this case the "lane" is actually the start order (the numbers do not (necessarily) change, but a heading might).	If apply
EC_RO /RO_LANE0	This attribute indicates if exist a Lane 0.	If apply
EC_QUALIFICATION /RO_QUALRULES	It's the Progression rules for the race.	When was available.
EC_QUALIFICATION /RO_RANK_QUALQFN EC_QUALIFICATION /RO_RANK_QUALREP EC_QUALIFICATION	Qualification for next round based on rank.	Not Available for London



Type /Code	Description	Expected
/RO_RANK_QUALSFN_y EC_QUALIFICATION /RO_RANK_QUALFNL_y		

5.1.11.6 Message sort

Please, follow the general definition.



6 Real time

The following chapter describes the ODF-RT part of Rowing.

6.1 Real Time Applicable Messages

The next table is a full list of all ODF-RT messages and describes the list of messages used in Rowing the same way as it is done in the table of chapter 4.

Message Type	Message name	Message documented	Message used in this sport	Message extended in this document
DT_RT_GM	RT Discipline/Venue good morning	Sports	X	
DT_RT_GN	RT Discipline/venue good night	Sports	X	
DT_RT_KA	RT Discipline/venue keep alive	Sports	X	
DT_RT_RESULT	RT Event Unit Results	Sports	X	X
DT_RT_CUMULATIVE_RESULT	RT Cumulative Results	Sports	X	X
DT_RT_GPS_DATA	RT GPS Data	Sports	X	X



6.1.1 RT Event Unit Results

6.1.1.1 Description

This message is the RT Event Unit Results message as described in the ODF Sport Messages Interface Document.

6.1.1.2 Header Values

The ODF header will be sent according to the ODF Common Codes document.

6.1.1.3 Trigger and Frequency

The following is the trigger for this message in ODF-RT:

- ResultStatus="LIVE_UPDATE"
 - T1: Trigger when status race changes.
 - T2: Trigger when the competitor completes each segment.
 - T3: Trigger during the race if the Status is required.
 - T4: Trigger after each competitor finishes the race.
- ResultStatus="LIVE_FULL"
 - This value should be suggested after further testing and sent in the DT_RT_GM message after further testing
- For other ResultStatus follow the general definition.

6.1.1.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- UnitInfo
- Competitor /ExtendedResults /ExtendedResult
- Competitor / Composition /Athlete /ExtendedResults /ExtendedResult

Please, follow the general considerations for all ResultStatus.

In the next section (message values), there is a more detailed definition.

6.1.1.5 Message Values

The following table describes in more detail the Result element.

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
Result	Rank	O	String	Rank of the competitor in the corresponding event unit. This attribute is optional because the competitor could get an invalid rank mark.	T2, T4
	RankEqual	O	Y or N	It must send always that the attribute Rank is send, it identify if a rank has been equalled.	
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding event unit	T3,T4



Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM, or both time and IRM (see codes section)	T3, T4
	Qualification Mark	O	CC @Qualification Mark	Indicates where the boat qualifies from here. The code which gives an indication on the progression of the competitor for the next round of the competition. Don't send for the final.	T4
	Result	O	MM:SS.tt 99:90.00	Result for the particular event unit.	T4
	SortOrder	O	Numeric	This attribute is a sequential number with the order of the results for the particular event unit, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank.	When was available
RecordIndicators /RecordIndicator	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1.	T4
	Code	M	CC @RecordCode	Code which describes the record broken by the result value (e.g. "ROM012000").	
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB").	

The following table describes in more detail the UnitInfo element in the case of Rowing.

Element: UnitInfo			
Type	Code	Value	Description
	RO_REDFLAG	S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Value: Send Y or N to know if the run is in Red flag
	RO_CURRENT	N(1) 0	For @Type: Send proposed type For @Code: Send proposed code For @Value: Last intermediate point passed by the leader

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
UI_RO /RO_REDFLAG	Use when the race is in Red Flag's status.	If apply.
UI_RO /RO_CURRENT	Send the intermediate point where the leader has most recently passed.	when it is available (NOT Time Trial)

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element for team's events and Competitor /Composition /Athlete /ExtendedResults /ExtendedResult for single's events.



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_QUALIFICATION	RO_PHASE			String	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Indicates Phase where the boat qualifies from here.
	RO_UNIT			String	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Indicates Heat code where the boat qualifies from here.
ER_RESULTS	RO_STATUS			CC @BoatStatus	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Boat status. (Time Trial only)
	RO_CURRENT			N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Intermediate point was the boat has most recently passed. (NOT Time Trial only)
	RO_REDFLAG			S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send Y if the race is red flag or N if it has not more
	RO_FALSESTARTS			N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Number of false starts made
	RO_YELLOWCARDS			N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Do not send anything



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Value: Number of yellow cards received
	RO_INTERMEDIATE		N(1) 0	MM:SS.tt 99:90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies intermediate/section, from 1 to the total number for that. For @Value: Cumulative time after the intermediate point/section.
		RO_RANK		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Athlete's rank after the intermediate point/section.
		RO_ERANK		Y or N	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: It must send always that the element _RANK is send, it identify if a rank has been equalled.
		RO_DIFF		+M:SS.tt +9:90.00 Or 0.00 for leader	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: The difference time between that competitor and the leader until that intermediate point/section. (NOT for time trial)
		RO_IDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Team order within classification. Usually it is the same like rank. It is necessary because it is possible the competitor don't have a rank.
		RO_LASTFINISH		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Value: Send "Y" this attribute for the competitor just reached some new split or N if it is not more.
	RO_SECTION		N(1) 0	MM:SS.tt 99:90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the section, from 2 to the total number of sections. For @Value: Cumulative time after the intermediate point/section.
		RO_RANK		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Athlete's rank after the intermediate point/section.
		RO_ERANK		Y or N	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: It must send always that the element _RANK is send, it identify if a rank has been equalled.
		RO_LASTFINISH		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send "Y" this attribute for the competitor just reached some new split or N if it is not more.
	RO_PHOTO			S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: To know if the competitor's final result was decided by photo. Send Y for Evaluated Status. Send P for Pending Status. Send N if the competitor don't have that.



For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_QUALIFICATION /RO_PHASE ER_QUALIFICATION /RO_UNIT	Indicates where the boat qualifies from here. (Printable Version is in QualificationMark)	T4
ER_RESULTS /RO_STATUS	Boat state (Time Trial only): at start, running, finished	T1: Always
ER_RESULTS /RO_CURRENT	Send for the competitor who has just finished the intermediate point or the race. If the competitor has an IRM: 1. In case the DNS, FLS or the athlete has an IRM before he crosses the first intermediate point: send 1. 2. In other cases, send the Intermediate point that he has crossed most recently plus 1. (NOT Time Trial only)	Not for Time trial: Always
ER_RESULTS /RO_REDFLAG	There is a red flag for this lane	when was available
ER_RESULTS /RO_FALSESTARTS	Number of false starts made	When was available
ER_RESULTS /ER_YELLOWCARDS	Number of yellow cards received	When was available
ER_RESULTS /RO_INTERMEDIATE	Are points in the race where we have the competitor's results (time, rank, difference (not for time trial).	When was available T2
RO_INTERMEDIATE /RO_IDX	Team order within classification.	When was available
RO_INTERMEDIATE /RO_LASTFINISH	Send this attribute for the competitor just reached some new split. Send with the value equal to the Split Identifier.	When was available
ER_RESULTS /RO_SECTION	Section between two intermediates. (i.e. Section 1 is the section between start the race and intermediate point 1). In case of a photo-tie the status is the word "PHOTO" (and there is no rank) until the tie is resolved.	When was available
ER_RESULTS /RO_PHOTO	It is a flag for know if it is necessary made a photo for this competitor.	At the end of the race, When was available

6.1.1.6 Message sort

Please, follow the general definition.



6.1.2 RT Cumulative Results

6.1.2.1 Description

This message is the RT Cumulative Results message as described in the ODF Sport Messages Interface Document.

6.1.2.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet). The DocumentCode should be [DD][G][EEE]000 and the DocumentSubtype will be send like [DD][G][EEE][P]00.

6.1.2.3 Trigger and Frequency

Please, follow the general definition, taking also into account the following

- T1: At the beginning of the day.
- T2: Trigger after each heat.

6.1.2.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- Competitor /ExtendedResults /ExtendedResult
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

In the next section (message values), there is a more detailed definition.

6.1.2.5 Message Values

Now, it is redefined the attributes of the optional elements in the generic message that are necessary in the case of Rowing.

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
CumulativeResult	Rank	O	String	Rank over all athletes who have competed.	T2
	RankEqual	O	Y or N	It must send always that the attribute Rank is send, it identify if a rank has been equalled.	
	SortOrder	M	Numeric	Competitor order within event	
CumulativeResult /RecordIndicators /RecordIndicator	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1.	When was available.
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /Result value (e.g. "ROM012000").	
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB").	
ResultItems /ResultItem	Phase	M	CC @Phase	This information came from common codes	Always
	Unit	M	CC @Unit		



Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
Result	Rank	O	String	For Heats and Repechage, the rank should be <ul style="list-style-type: none"> Overall: by race rank, then by time Overall: IRMs as per sport rule For Semifinals, the rank should be <ul style="list-style-type: none"> Semifinal A and B: race rank, then by time Semifinal C and D: race rank, then by time Overall: IRMs as per sport rule. For Finals, the rank should be <ul style="list-style-type: none"> Final A: race rank (including DNS and DNF) Final B: race rank(including DNS and DNF) Final n: race rank(including DNS and DNF) Overall: IRMs (other the DNS and DNF) as per sport rule 	T2
	RankEqual	O	Y or N	It must send always that the attribute Rank is send, it identify if a rank has been equalled.	
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding event unit	
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM, or both time and IRM (see codes section)	
	Qualification Mark	O	CC @Qualification Mark	Codes vary based on progression conditions for a particular event unit.	
	Result	O	MM:SS.tt 99:90.00	Total Time for the particular event unit.	
	SortOrder	M	Numeric	Competitor order within event unit	Always
CumulativeResult /ResultItems /ResultItem /Result /RecordIndicators /RecordIndicator (result's record indicator)	Order	M	Numeric	Number of times current record (RecordCode + RecordType) is broken; increment starting from 1. <u>It just applies to event units</u>	When was available.
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /ResultItems /ResultItem /Result value (e.g. "ROM012000"). <u>It just applies to event units</u>	
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken (e.g. "OB"). <u>It just applies to event units</u>	

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element for team's events and Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element for single's events.

Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_RO	RO_TIME_SORT			Numeric	For @Type: Send proposed type
					For @Code: Send proposed code



Element: Competitor /ExtendedResults /ExtendedResult Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Pos: Do not send anything.
					For @Value: Send the sort order by time in the event

For the table above, we have the following additional/summary information:

Type /Code	Description	LIVE_UPDATE RT trigger expected
ER_RO /RO_TIME_SORT	Sort order by time in the event	T2

6.1.2.6 Message sort

Please, follow the general definition.

6.1.3 RT GPS Data

6.1.3.1 Description

This message is the RT GPS Data message as described in the ODF Sport Messages Interface Document.

6.1.3.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet).

6.1.3.3 Trigger and Frequency

Please, follow the general definition, taking also into account the following

- T1: Every 5 seconds during the race.

6.1.3.4 Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Rowing are:

- Competitor / ExtendedGPSData

In the next section (message values), there is a more detailed definition.

6.1.3.5 Message Values

The following table describes in more detail the Competition element.

Element	Attribute	M/O	Value	Comments
Competition	Code	M	CC @Competition	Unique ID for competition
GPS	ID	M	S(25)	Competitor ID
	DistanceToFinish	M	Numeric	Distance (in meters) from the competitor position to the finish line
	DistanceFromStart	M	Numeric	Distance (in meters) from the Start Line to the competitor position
	DistanceToLeader	M	Numeric	Distance (in meters) from the competitor position to the position of the leader



Element	Attribute	M/O	Value	Comments
	Speed	M	Numeric	Speed (in meters/second).

The following table describes in more detail the Competitor / ExtendedGPSData element in the case of Rowing.

Element: Competitor / ExtendedGPSData				
Type	Code	Pos	Value	Description
EG_RO	RO_RATE		N(3) 990	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Send stroke rate

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
EG_RO /RO_RATE	Send stroke rate	Always

6.1.3.6 Message sort

Please, follow the general definition.



DOCUMENT CONTROL

Version history

Version	Date	Comments
R2 v1.0	1 March 2009	Submitted for review version
R2 v2.0	30 March 2009	Comments after Interface meeting
R2 v3.0	27 April 2009	Document reformatted according to changes log
		Status changed to APP
R2 v4.0	22 May 2009	Changes after the WNPA meeting
R2 v4.1	17 July 2009	Some minor corrections and added the copyright
R2 v5.0	28 June 2010	Some minor corrections
R2 v6.0	13 December 2010	Changes after ORIS meeting
R2 v6.1	23 December 2010	Some minor corrections
R2 v6.2	11 March 2011	Some minor corrections
R2 v6.3	18 March 2011	Some minor corrections
R2 v7.0	8 April 2011	CR001143
R2 v7.1	2 September 2011	Some minor corrections
R2 v7.2	3 October 2011	Defect 41366
R2 v8.0	9 January 2012	CR005875, IR0101, Defects 55502, 55985, 58042, 58045, 58242
R2 v8.1	12 March 2012	Defects 63729 and 64429
R2 v9.0	13 April 2012	CR007516, CR008080 & defects 58042, 63339(CR006739), 67989
R2 v9.1	22 Jun 2012	Defect 76463

File reference: ODF/INT043 R2 v9.1 APP (RO)



Change Log

Version	Status	Changes on version
R2 v1.0	SFR	<ul style="list-style-type: none">• First version
R2 v2.0	SFA	<ul style="list-style-type: none">• Delete the codes "PHOTO" from CC @IRM and CAN from CC @RunStatus.• Delete the description (bow, stroke, cox) from CC @Position Order• Start List: Add to the Start/StartOrder's description "Boat number" because sometimes the order it is by that.• Start List/Unit Results: Delete the RO_STATUS (cancelled) because for know this information you can consult the schedule message.• Discipline Configuration: change CF_ by RO_; Add code in the qualification rule for Repechage Re-Row.• Discipline Configuration: change _MAXLINES by _MAXLANES; The _MAXLANES can be different by phase.• Discipline Configuration: Send _QUALRULES by event unit; Change the _LINESPOS to external element.• Discipline Configuration: Add a new element (_RANK_QUALQRT, _RANK_QUALREP, _RANK_QUALSEM_y, _RANK_QUALFNL_y) for WNPA• RT event unit result: change the format for @Rank and _RANK to String.• RT event unit result: Made the same element for RO_INTERMEDIATE and RO_SECTION; Delete RO_MEDAL; Add a flag for PHOTO.• Delete "Cumulative Results" message and add "Event Final Ranking" message for "Final Ranking" and "Final placing by NOC".
R2 v3.0	APP	<ul style="list-style-type: none">• Reorder the Codes section alphabetically according with the code entity.• _LASTFINISH : change the value from S(20) to S(1), because we know who is the competitor• Status changed to APP
R2 v4.0	APP	<ul style="list-style-type: none">• Changes after the WNPA meeting:• Section Code: add a "_" for @QualificationMark• RT cumulative: change Qualificationark by QualificationMark• Record: Add a new attribute Time• Discipline Config: change _RDESC by _MATCH_NUMBER because we use the code for all the sports; Add _CODE for the race code• Change "List of athletes by discipline" (DT_PARTIC_ATHLETES) by "List of participants by discipline" (DT_PARTIC), where this message is merging the messages list of athletes, list of officials and list of historical athletes.• Change "List of athletes by discipline update" (DT_PARTIC_ATHLETES_UPDATE) by "List of participants by discipline update" (DT_PARTIC_UPDATE), where this message is merging the messages list of athletes update and list of officials update.• Merge the messages "List of Teams" (DT_PARTIC_TEAMS) and "List of Historical teams" (DT_TEAMS_HISTORIC) in "List of Teams".• Delete DT_ORGANISATIONS, DT_PARTIC_OFFICIALS, DT_PARTIC_OFFICIALS_UPDATE, DT_PARTIC_HISTORIC, DT_TEAM_HISTORIC.• Add a new message DT_HIST_REC_UPDATE, DT_WEATHER
R2 v4.1	APP	<ul style="list-style-type: none">• Some minor corrections and added the copyright.• Delete "equestrian" from the description of DT_PARTIC_HORSES_UPDATE
R2 v5.0	APP	<ul style="list-style-type: none">• General: Update the Y/N values; The extra information for the single's events should be send bellow the /Composition /Athlete element; Changes in the time's formats• Codes: Remove the CC @MedalType;• Partipants:Add MainFuntionId• Historical Recods: update• Start List: Indicator as supplied by OVR for DNS or other possible results before the race; Change the value for _TIMETRIAL;• Results: add _LINEPOS• Records: The records should be for individuals and teams



Change Log

Version	Status	Changes on version
		<ul style="list-style-type: none">• Config: _QUALRULES clarification the description of this element; removed _LINEPOS; add an element_LANE0 to know if the race starts with Lane "0".• RT Results: _CURRENT change @pos by @Value; Remove the _LANE; Remove the _LAST and _INTERMEDIATE for UnitInfo; The _CURRENT doesn't send for time trial; Change the value for _TIMETRIAL• RT Cumulative: Add CumulativeResult@Rank instead Result@Rank for overall rank.• Changes after the WNPA meeting:<ul style="list-style-type: none">▪ Event Final Ranking/Results/Cumulative Results: Add the attribute RankEqual when there are an attribute Rank to identify if this is qualed or not.▪ Results: Add an element _ERANK when there are an attribute Rank to identify if this is qualed or not.



Change Log

Version	Status	Changes on version
R2 v6.0	APP	<ul style="list-style-type: none">• Results/Cumulative: Merge RT data and PiT• Codes: remove for CC @RunStatus• Result: Add a RO_REDFLAG• RT Cumulative: Change the trigger• Changes after the ORIS meeting:<ul style="list-style-type: none">▪ Updated CC @IRM values.▪ Added CC @RecordType to Codes table▪ Added Cumulative for PiT.▪ Result:<ul style="list-style-type: none">- ResultType attribute is optional.- Updated QualificationMark description.- Updated RecordIndicator value.- Added RO_REDFLAG Code to UnitInfo element.- Added RO_REDFLAG, RO_FALSESTARTS and RO_YELLOWCARDS to ExtendedResult.▪ Discipline Configuration: updated Phase/Unit values.▪ RT Result:<ul style="list-style-type: none">- Updated UnitInfo Type.- Added RO_REDFLAG Code to UnitInfo element.- Added RO_FALSESTARTS and RO_YELLOWCARDS to ExtendedResult.• Discipline Configuration: Removed comment about Qualification rule
R2 v6.1	APP	<ul style="list-style-type: none">• Start List; Result, RT Result: removed RO_TIMETRIAL.• Discipline Configuration: added RO_TIMETRIAL
R2 v6.2	APP	<ul style="list-style-type: none">• List of Participants: removed values in EventEntry E_POSITION /@Pos.• Start List: removed values in Start /Competitor /Composition /Athlete /EventUnitEntry RO_POSITION /@Pos• Codes: removed CC @PositionOrder
R2 v6.3	APP	<ul style="list-style-type: none">• List of Participants: renamed EventEntry code E_RESERVE to E_SUBSTITUTE• List of Participants: updated value for EventEntry E_POSITION /@Pos.• Start List: updated value in Start /Competitor /Composition /Athlete /EventUnitEntry RO_POSITION /@Pos
R2 v7.0	APP	<ul style="list-style-type: none">• Added DT_RT_GPS_DATA message
R2 v7.1	APP	<ul style="list-style-type: none">• Defect 41514, Start List: updated Trigger and Frequency section• Defect 44537, Discipline Configuration: updated description of @Pos attribute for RO_SECTION• RT EU Results: updated comments about ResultStatus• Moved Document Control section to the end of the document
R2 v7.2	APP	<ul style="list-style-type: none">• Defect 41366: Codes: added Progression by time, code "?" to CC @QualificationMark codes
R2 v8.0	APP	<ul style="list-style-type: none">• CR005875: Cumulative Results / RT Cumulative Results: added RO_TIME_SORT ExtendedResult• IR0101: Add DT_SERIAL message in the PiT messages• Defect 55502: Codes: change description for code @Position• Defect 55985: Cumulative Results: removed trigger column.• Defect 58042: Start List: added Bib attribute for Start/Competitor/Composition/ athlete element.• Defect 58045:<ul style="list-style-type: none">- Event Unit Results: removed elements RO_SECTION\RO_DIFF & RO_SECTION\RO_IDX.- RT Event Unit Results: code RO_INTERMEDIATE and code RO_SECTION have



Change Log

Version	Status	Changes on version
		been splitted. Removed elements RO_SECTION\RO_DIFF & RO_SECTION\RO_IDX. <ul style="list-style-type: none">Defect 58242:Codes: @Position letters changed from upper case to lower case (B,S,C -> b,s,c)
R2 v8.1	APP	<ul style="list-style-type: none">Defect 63729: Cumulative Results: updated the Trigger and Frequency sectionDefect 64429: List of participants: added @InternationalFederationId
R2 v9.0	APP	<ul style="list-style-type: none">CR007516:<ul style="list-style-type: none">The RecordIndicators /RecordIndicator elements are used in DT_RESULT and DT_RT_RESULT so add to DT_CUMULATIVE and DT_RT_CUMULATIVE_RESULT messages too.Clarify the meaning of RecordIndicator@Order, use CC @RecordCode for attribute RecordIndicator@Code, add an attribute called RecordIndicator@RecordType for CC @RecordType in the DT_RESULT, DT_CUMULATIVE_RESULT, DT_RT_RESULT and DT_RT_CUMULATIVE_RESULT messages.CR008080: Cumulative Results / RT Cumulative Results: added clarification for Rank attribute.Defect 63339 (CR006739): Participants: Event Entry E_Positions should be only for teams.Defect 58042: Start List: The value of the Bib attribute should read S(3) - there will be more than 100 athletes in RO.Defect 67989: @Pos should start at 2 for CF_SECTION code in Event Unit Results and RT Event Unit Results.
R2 v9.1	APP	<ul style="list-style-type: none">Defect 76463: Added clarification for DT_CONFIG message, Element:ExtendedConfig, Type:EC_QUALIFICATION



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