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Olympic Data Feed

ODF Sailing Data Dictionary

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1 Introduction

1.1 This document

This document includes the ODF Sailing Data Dictionary for Nanjing 2014 Youth Olympics. This Data Dictionary refines the messages described in the ODF General Messages Interface Document specifically for Sailing, 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 Sailing Data Dictionary, with the intention that the information message producer and the message consumer can successfully interchange the information as the Sailing competition for Nanjing 2014 Youth Olympics 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
- **RSC** – Results System Codes
- **SA** – Sailing
- **WNPA** – World News Press Agencies

1.5 Related Documents

Document Reference	Document Title	Document Description
ODF/COD001	ODF Common Codes Document	This document describes the ODF codes used across the rest of the ODF documents
ODF/INT300	ODF General Messages Interface Document	This document describes the ODF General messages



2 Overall Perspective

2.1 Objective

The objective of this document is to focus on the formal definition of the ODF Sailing 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 General Messages Interface since this ODF Sailing Data Dictionary is a particularization of this document.

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 Sailing.

Any ODF Sailing 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. Please refer to ODF General Messages Interface Document to know the format of these codes.

Code Entity	Code Entity Set of Values	
CC @IRM	Code	Description
	BFD	Black Flag Disqualification - Disqualification under rule 30.3
	DGM	Disqualification for Gross Misconduct - Disqualification for gross misconduct not excludable under rule 90.3(b)
	DNC	Did not Come – Did not come to the starting area
	DNE	Disqualification Not Excludable - Disqualification (other than DGM) not excludable under rule 90.3(b)
	DNF	Did not Finish
	DNS	Did not Start (other than DNC and OCS)
	DPI	Discretionary Penalty Imposed
	DSQ	Disqualification
	OCS	On Course Side - On the course side of the starting line at the starting signal and failed to start, or broke rule 30.1
	RAF	Retired After Finishing
	RDG	Redress Given
	SCP	Took a Scoring Penalty under rule 44.3(a)
	ZFP	Z Flag Penalty - 20% penalty under rule 30.2
	STP	Standard Penalty
	UFD	U flag disqualification
	RET	Retired
CC @ResultType	Code	Description
	IRM	Invalid Result Mark
	IRM_POINTS	Send both, Points and IRM
	POINTS	Points



4 Point in Time

4.1 Point in Time Applicable Messages

The following table is a full list of all ODF messages and describes the list of messages used in Sailing.

- 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 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 used in this sport	Message extended in this document
DT_SCHEDULE	Competition schedule	X	
DT_SCHEDULE_UPDATE	Competition schedule update	X	
DT_PARTIC	List of participants by discipline	X	X
DT_PARTIC_TEAMS	List of teams		
DT_PARTIC_HORSES	List of equestrian horses		
DT_START_LIST	Start List	X	X
DT_RESULT	Event Unit Results	X	X
DT_PHASE_RESULT	Phase Results		
DT_CUMULATIVE_RESULT	Cumulative Results	X	X
DT_POOL_STANDING	Pool Standings		
DT_BRACKETS	Brackets		
DT_RANKING	Event Final ranking	X	X
DT_MEDALLISTS	Medallists of one event	X	



4.1.1 List of participants by discipline

4.1.1.1 Description

This message is the List of participants (current athletes, officials and historical athletes) by discipline as described in the ODF General Messages Interface Document.

4.1.1.2 Header Values

The definition in the ODF General Messages Interface Document is valid.

4.1.1.3 Trigger and Frequency

The definition in the ODF General Messages Interface Document is valid.

4.1.1.4 Message Structure

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

- N/A

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

4.1.1.5 Message Values

The following table lists the “List of participants by discipline” optional attributes that are used in the case of Sailing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Competition /Participant	BirthDate	O	YYYYMMDD	Date of birth. It will be included if available
	Height	O	N(3) 990	Height in centimetres. It will be included if this information is available. This information is not needed in the case of officials/referees.
	Weight	O	N(3) 990	Weight in kilograms. It will be included if this information is available. This information is not needed in the case of officials/referees.

4.1.1.6 Message sort

Please, follow the general definition.



4.1.2 Start List

4.1.2.1 Description

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

4.1.2.2 Header Values

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

4.1.2.3 Trigger and Frequency

Please, follow the general definition

4.1.2.4 Message Structure

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

- UnitInfos and its child element UnitDateTime (following the general rules for this element)
- UnitInfo /Extensions

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

4.1.2.5 Message Values

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

Element	Attribute	M/O	Value	Comments
Start	SortOrder	M	Numeric	According to the sport rules.
Start /Competitor /Composition /Athlete	Order	M	Numeric	Send always 1

The following table describes in more detail the UnitInfos /UnitInfo element in the case of Sailing.

Element: UnitInfos /UnitInfo					
Type	Code	Extension Code	Pos	Value	Description
UI_SA	SA_MARK		N(1) 0	N(2) 00 or S(n)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send the mark order: Pos=1 for Start Pos=2 for Finish
					For @Value: Send 0 for Start and 10 for Finish and the corresponding mark number or string for the rest



	SA_SEQ_NUM		N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send the mark sequence number: 0..n Send 0 for Start (SA_MARK @Value=0)
	SA_NUM_MARKS		N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send the total number of marks planned, without including the Start and the Finish marks
	SA_COURSE_DESC		S(n)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send the course to be sailed description
	SA_NUM_LEGS		N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send the numbers of legs. Always 1 in Nanjing 2014

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

Type /Code	Extension Code	Description	Expected
UI_SA /SA_MARK		Send the different marks of the course for an event unit. For example: @Pos 1, @Value 0 for Start mark. @Pos 2, @Value 1 for next 1 mark. @Pos 3, @Value 2 for next 2 mark. @Pos 4, @Value 1 for next 1 mark. @Pos 5, @Value 2p 2s for next 2p 2s mark. @Pos 6, @Value 1 for next 1 mark. @Pos 2, @Value 10 for Finish mark.	Always, if available
UI_SA /SA_MARK/SA_SEQ_NUM		Send the mark sequence number for each Mark. In base of the SA_MARK example: @Value 0 for Start mark (@Pos 1, @Value 0 for Start mark.).	Send if available



		<p>@Value 1 for next mark (@Pos 2, @Value 1 for next 1 mark).</p> <p>@Value 2 for next mark (@Pos 3, @Value 2 for next 2 mark).</p>	
UI_SA /SA_NUM_MARKS		Send the total number of marks planned, without including the Start and the Finish marks.	Always, if available
UI_SA /SA_COURSE_DESC (by event unit)		<p>Send the course to be sailed description for a race.</p> <p>For example: Windward/Leeward 3 Laps (W3)</p>	Always, if available
UI_SA /SA_NUM_LEGS		Send the number of legs	Always, if available

4.1.2.6 Message sort

Please, follow the general definition.



4.1.3 Event Unit Results

4.1.3.1 Description

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

4.1.3.2 Header Values

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

4.1.3.3 Trigger and Frequency

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

- Fleet Racing:
 - Official/Unofficial:
 - After each race
 - After each results change due to protest decision

4.1.3.4 Message Structure

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

- UnitInfos and its child element UnitDateTime (following the general rules for this element)
- Result /Competitor /Composition /Athlete /ExtendedResults and its child element ExtendedResult

4.1.3.5 Message Values

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

The following table describes in more detail the Result element in the case of Sailing.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	N(2) 90	Place for the competitor at the race. Send just if ResultType is not IRM
	RankEqual	O	S(1)	Send Y in case of the Rank has been equalled
	ResultType	M	CC @ResultType	Result type, either IRM or POINTS or IRM_POINTS
	Result	O	N(2).N(1) 90.0	Race points
	IRM	O	CC @IRM	Invalid result mark. Send just if ResultType is equal to IRM or IRM_POINTS
	SortOrder	M	N(2) 90	According to the sport rules. Order of estimated finish place calculates overall position based on the position at the last mark. If not all boats have rounded the last mark, estimate their probable position.

The following table describes in more detail the Competition /UnitInfos /UnitInfo element in the case of Sailing.

Element: Competition /UnitInfos /UnitInfo
--



Type	Code	Pos	Value	Description
UI_SA	SA_WIND_SPEED	N(2) 90	N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send 0 for the global information at the race Send 1 for Start Send 2 for Finish For @Value: Wind speed in knots for each mark of the course at the moment the leader rounded the mark
	SA_WIND_DIRECTION	N(2) 90	N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send 0 for the global information at the race Send 1 for Start Send 2 for Finish For @Value: Wind direction in degrees for each mark of the course at the moment the leader rounded the mark
	SA_ELAPSED_TIME	N(2) 90	HH:MM:SS 99:99:90	For @Type: Send proposed type For @Code: Send proposed code For @Pos Just 2 for Finish For @Value: Send the elapsed time for the leader for each mark of the course and finish

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

Type /Code	Description	Expected
UI_SA /SA_WIND_SPEED	Wind speed in knots for each mark at the moment the leader rounded the mark or for the global information at the race	If available
UI_SA /SA_WIND_DIRECTION	Wind direction in degrees for each mark at the moment the leader rounded the mark or for the global information at the race	If available
UI_SA /SA_ELAPSED_TIME	Send the elapsed time of first boat for each mark of the course and finish (@Pos from 2 to n, being 10 the finish one)	If available

The following table describes in more detail the Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element.

Element: Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description



Element: Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult							
Type	Code	Extension Code	Pos	Value	Description		
ER_SA	SA_MARK		N(2) 90	N(2) 90	For @Type: Send proposed type		
					For @Code: Send proposed code		
					For @Pos Just 2 for Finish		
					For @Value: Send the place of the boat at the corresponding mark		
			SA_TIME_BEHIND			MM:SS 90:00	For @Type: Send the corresponding ExtendedResult code
		For @Code: Send proposed extension code					
		For @Pos: Do not send anything					
		For @Value: Send the time behind the leader					
			SA_TIME			HH:MM:SS 99:99:90	For @Type: Send the corresponding ExtendedResult code
		For @Code: Send proposed extension code					
		For @Pos: Do not send anything					
		For @Value: Send the expended time from the Starting line to this mark (finish)					
			SA_LAST_COMP			S(1)	For @Type: Send the corresponding ExtendedResult code
		For @Code: Send proposed extension code					
		For @Pos: Send one sequential number (1..n) if more than 1 boat rounding the mark at the same time, otherwise 1					
		For @Value: Send Y in case of this sailor was the last one that rounded this mark					
			SA_SORT_ORDER			N(2) 90	For @Type: Send the corresponding ExtendedResult code
		For @Code: Send proposed extension code					
		For @Pos: Do not send anything					
		For @Value: Send the order of the boat at the corresponding mark					

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

Type /Code	Extension Code	Description	Expected
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ER_SA /SA_MARK		Send the place of the boat at the corresponding mark of the course (mark number @Pos, according to the @Pos of the SA_MARK code at the Start List message, being 1 the Starting mark.	Send if available
	SA_TIME_BEHIND	Send the time behind the leader at the corresponding mark of the course	Send if available
	SA_TIME	Send the expended time from the Starting line to this mark	Send if available
	SA_LAST_COMP	Send Y in case of this sailor was the last one that rounded this mark	Send if available
	SA_SORT_ORDER	Send the order of the boat at the corresponding mark	Always



4.1.4 Cumulative Results

4.1.4.1 Description

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

The Cumulative Results message is used to send an interim summary of results (including rank) part way through a phase. In this case, the DocumentSubtype is used to specify the last phase or event unit that contributed results to the message.

4.1.4.2 Header Values

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

The DocumentSubtype is the DocumentCode code up to the moment the cumulative message contains information. Its contents could be:

- DDGEEPUU would be cumulative results up to the end of the referenced event unit, i.e., the cumulative results up to one of the races of the opening series.

It is for all Fleet Racing event units except for those in the final phase

- DDGEEEP00 would be cumulative results up to the end of the referenced phase, i.e., the cumulative results up to the end of the medal race.

It is for all Fleet Racing event units and phases.

4.1.4.3 Trigger and Frequency

Please, follow the general definition

4.1.4.4 Message Structure

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

- Result /Competitor /Composition /Athlete /ExtendedResults and its child element ExtendedResult

4.1.4.5 Message Values

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

The following table describes in more detail the Result element in the case of Sailing.

Element	Attribute	M/O	Value	Comments
CumulativeResult	Rank	O	N(2) 90	Send the boat estimated overall place based on net points for all phases of the event or for a set of Opening Series races.
	RankEqual	O	S(1)	Send Y in case of the Rank has been equalled
	ResultType	M	CC @ResultType	Result type, either IRM or POINTS or IRM_POINTS



Element	Attribute	M/O	Value	Comments
	Result	O	N(3).N(1) 990.0	Send the calculated overall net points based on boats finishing in their estimated finish place for all phases of the event or for a set of Opening series races.
	IRM	O	CC @IRM	Invalid result mark. Send just if ResultType is equal to IRM or IRM_POINTS
	SortOrder	M	N(2) 90	According to the sport rules.
CumulativeResult /ResultItems /ResultItem /Result (For any Event Unit Results message, there should be at least one competitor being awarded a result for the event unit)	Rank	O	Text	Rank of the competitor in the result for the event unit or phase identified by /ResultItems /ResultItem.
	RankEqual	O	S(1)	Send Y in case of the Rank has been equalled.
	ResultType	O	CC @ResultType	Type of the @Result attribute for the event unit or phase identified by /ResultItems /ResultItem, either IRM or POINTS or IRM_POINTS
	Result	O	N(2).N(1) 90.0	The result of the competitor for the event unit or phase identified by /ResultItems /ResultItem Send just in the case @ResultType is POINTS or IRM_POINTS
	IRM	O	CC @IRM	The invalid rank mark, in case it is assigned for the event unit or phase identified by /ResultItems /ResultItem Send just in the case @ResultType is IRM or IRM_POINTS
	SortOrder	M	Numeric	Used to sort all results in an event unit or phase identified by /ResultItems /ResultItem

The following table describes in more detail the Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element.

Element: Competition /CumulativeResult /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_SA	SA_TOTAL_POINTS			N(3).N(1) 990.0	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send the overall total points for all phases of the event or for a set of Opening series races
	SA_DISCARDED_RACE		N(2) 90	S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send the event unit number for the excluded score race



Element: Competition /CumulativeResult /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Value: Send Y in case of the @Pos event unit number race has an excluded score

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

Type /Code	Extension Code	Description	Expected
ER_SA /SA_TOTAL_POINTS		Send the overall total points for all phases of the event or for a set of Opening series races	Send if available and just for Fleet racing events
ER_SA /SA_DISCARDED_RACE		Send Y in case of the @Pos event unit number race has an excluded score	Send just if applies and just for Fleet racing events



4.1.5 Event Final Ranking

4.1.5.1 Description

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

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

4.1.5.2 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).

4.1.5.3 Trigger and Frequency

Please, follow the general definition

4.1.5.4 Message Structure

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

- Composition /Athlete /ExtendedResults and its child element ExtendedResult

4.1.5.5 Message Values

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

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Numeric	Final rank of the competitor in the corresponding event
	RankEqual	O	S(1)	Send Y in case of the Rank has been equalled
	ResultType	O	CC @ResultType	It can be POINTS, IRM or IRM_POINTS
	Result	O	N(3).N(1) 990.0	Net points obtained
	IRM	O	CC @IRM	Invalid rank mark, in case it is assigned
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular event, 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.

The following table describes in more detail the Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element.

Element: Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_SA	SA_TOTAL_POINTS			N(3).N(1) 990.0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything



Element: Competition /Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Value: Send the athlete total points

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

Type /Code	Extension Code	Description	Expected
ER_SA /SA_TOTAL_POINTS		Send the athlete total points	Always

4.1.5.6 Message sort

Please, follow the general definition.



DOCUMENT CONTROL

Version history

Version	Date	Comments
R2 v1.0	5 December 2013	Submitted for review version
R2 v1.1	20 December 2013	SFA version including reviewers comments
R2 v1.2	28 February 2014	APP, some minor issues

File reference: ODF/INT325 R2 v1.2 APP (SA)

Change Log

Version	Status	Changes on version
R2 v1.0	SFR	<ul style="list-style-type: none">• First version
R2 v1.1	SFA	<ul style="list-style-type: none">• SFA Version• CC@IRM: Codes STP, UFD and RET added. RAF removed• DT_START_LIST: UnitInfos /UnitInfo SA_MARK and SA_NUM_MARKS removed at all because there are only 2 (or 0) marks SA_NUM_LEGS value clarified• DT_RESULTS: UI_SA/SA_WIND_SPEED, UI_SA/SA_WIND_DIRECTION, UI_SA/SA_ELAPSED_TIME and ER_SA/SA_MARK Pos Value clarified
R2 v1.2	APP	<ul style="list-style-type: none">• Remove the DT_PARTIC_HORSES message• Add the DT_SCHEDULE_UPDATE message



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