Olympic Data Feed

ODF Swimming Data Dictionary for the XX Commonwealth Games

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Technology and Information Department

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1 Introduction

1.1 This document

This document is a Derivative Work (as defined in the License hereto) prepared by Glasgow 2014 Limited for the purpose of the XX Commonwealth Games.

1.2 Objective

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

1.3 Main Audience

The main audience of this document is the IOC as the ODF promoter, Glasgow 2014, 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

Acronym	Description
IF or International Federation	The international governing body of an Olympic Sport as recognized by the IOC
IOC	International Olympic Committee
IPC	International Paralympic Committee
CGA	Commonwealth Games Associations
ODF	Olympic Data Feed
ODF-PiT	Olympic Data Feed Point in Time, messages that are generated at certain point during competition
ODF-RT	Olympic Data Feed Real Time, messages that are generated when available
RSC	Results System Codes, determine uniquely one unit of the competition, specifying the discipline, gender, event, phase and unit.
Sport	Is administered by an international federation and can be composed of one or more disciplines
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

Document Reference	Document Title	Document Description
		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/INT142	ODF General Messages Interface Document	This document describes the ODF general messages for the XX Commonwealth Games

2 Overall Perspective

2.1 Objective

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

2.2 End to End data flow

In the following sections, for each ODF General 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 Swimming.

Any ODF Swimming 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 @Country	Defined in ODF Common Codes Document See entity Country • The entity's attribute to be used is Id	
CC @Discipline	Defined in ODF Common Codes Document See entity Discipline • The entity's attribute to be used is Id • However, valid disciplines will be those which Non-Sport attribute='N'	
CC @DisciplineGender	Defined in ODF Common Codes Document See entity Discipline Gender • The entity's attribute to be used is Gender • It will be related to Discipline	
CC @Event	Defined in ODF Common Codes Document See entity Event • The entity's attribute to be used is Event • It will be related to Discipline and Gender	
CC @IRM (The codes order provided is according to the sport rules. In case of several IRM of the same code, sort by bib numbers in ascending order).	**Code**	**Description**
	DNS	Did not start
	DNF	Did not finish
	DSQ	Disqualified
	pd	Pending for disqualification
CC @Organisation	Defined in ODF Common Codes Document See entity Organisation • The entity's attribute to be used is Id	
CC @PerformanceCategory	**Code**	**Description**
	WRP	World Record Chronology
	ALL	Top 10 - All Time
	CUY	Top 10 - Current Year Performers
CC @Phase	Defined in ODF Common Codes Document See entity Phase	

Code Entity	Code Entity Set of Values	
	• The entity's attribute to be used is Phase • It will be related to Discipline, Gender and Event	
CC @QualificationMark	**Code**	**Description**
	Q	Qualified for the next phase (semi-final or final)
	?	Involved in swim-off
CC @RecordCode	Defined in ODF Common Codes Document See entity Record • The entity's attribute to be used is Id	
CC @RecordType	Defined in ODF Common Codes Document See entity Record Type • The entity's attribute to be used is RecordType • It will be related to Discipline	
CC @ResultType	**Code**	**Description**
	IRM	Invalid Result Mark
	TIME	Performance as a Time value
CC @Stroke	**Code**	**Description**
	1	Freestyle
	2	Butterfly
	3	Breaststroke
	4	Backstroke
CC @Unit	Defined in ODF Common Codes Document See entity Unit • The entity's attribute to be used is EventUnit • It will be related to Discipline, Gender, Event and Phase	

The following table describes the codes entities specific for **Para-Sport** events 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 @SportClass	Defined in ODF Common Codes Document See entity Sport Class • The code to be used is found in the Class column

4 Point in Time

4.1 Point in Time Applicable Messages

The following table is a full list of all ODF-PiT messages and describes the list of messages used in Swimming, as well as the category of each message, which identifies if the message structure definition can be found in the ODF General 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 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.
- The columns Para-Sport events indicate if there is any difference between the Oly-Sport definition and the Para-Sport definition.

Message Type	Message name	Message used in this sport	Message extended in this document	Para-Sport events	
				Message used in this sport	Message extended in this document
DT_SCHEDULE	Competition schedule	X		X	
DT_SCHEDULE_UPDATE	Competition schedule update	X		X	
DT_PARTIC	List of participants by discipline	X	X	X	X
DT_PARTIC_UPDATE	List of participants by discipline update	X	X	X	X
DT_PARTIC_TEAMS	List of teams	X	X		
DT_PARTIC_TEAMS_UPDATE	List of teams update	X	X		
DT_MEDALS	Medal standings	Global		Global	
DT_MEDALLISTS_DAY	Medallists of the day	Global		Global	
DT_HISTORIC_RECORD	Historical records	X	X	X	X
DT_GLOBAL_GM	Global good morning	Global		Global	
DT_GLOBAL_GN	Global good night	Global		Global	
DT_START_LIST	Start List	X	X	X	X
DT_RESULT	Event Unit Results	X	X	X	X

Message Type	Message name	Message used in this sport	Message extended in this document	Para-Sport events	
				Message used in this sport	Message extended in this document
DT_PHASE_RESULT	Phase Results	X	X	X	X
DT_CUMULATIVE_RESULT	Cumulative Results	X	X	X	X
DT_POOL_STANDING	Pool Standings ~~of group in a team competition~~				
DT_RANKING	Event Final ranking	X		X	
DT_STATS	Statistics table				
DT_MEDALLISTS	Medallists of one event	X		X	
DT_MEDALLISTS_DISCIPLINE	Medallists by discipline	X		X	
DT_RECORD	Records	X	X	X	X
DT_COMMUNICATION	Official Communication	X		X	
DT_BRACKETS	Brackets				
DT_GM	Discipline/venue good morning	X		X	
DT_GN	Discipline/venue good night	X		X	
DT_FED_RANKING	Federation Ranking				
DT_CONFIG	Discipline configuration	X	X	X	X
DT_WEATHER	Event Unit Weather conditions				
DT_SERIAL	List of Current PiT Serial	X		X	

4.1.1 List of participants by discipline / List of participants by discipline update

4.1.1.1 Description

This message is the List of participants by discipline (and the update), for that discipline it is the list of athletes, 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 and in the case when the venue results becomes owner of the data.

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 Swimming are:

- Participant /Discipline /RegisteredEvent
- Participant /Discipline /RegisteredEvent /EventEntry

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 / update" optional attributes (defined in the ODF General Messages Interface Document) that are used in the case of Swimming, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Participant	BirthDate	O	YYYYMMDD	Date of birth. It will be included if this information is available.
	Height	O	N(3) 999	Height in centimetres. It will be included if this information is available.
	Weight	O	N(3) 999	Weight in kilograms. It will be included if this information is available.

The following table lists only extra optional attributes (defined in the ODF General Messages Interface Document) that are used in the case of **Para-Sport** events.

Element	Attribute	M/O	Value	Comments
Participant /Discipline /RegisteredEvent	Class	M	CC @SportClass	Code to identify the Sport class for the athlete.

The following table describes in more detail the Participant /Discipline /RegisteredEvent /EventEntry element in the case of Swimming.

Element: Participant /Discipline /RegisteredEvent /EventEntry				
Type	**Code**	**Pos**	**Value**	**Description**
E_ENTRY	E_Q_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed type
				For @Code:

Element: Participant /Discipline /RegisteredEvent /EventEntry				
Type	**Code**	**Pos**	**Value**	**Description**
				Send proposed code
				For @Pos: Do not send anything
				For @Value: Athlete's Qualifying Time. Use Time format: MM is minutes SS is seconds tt is hundredths of second
	E_Q_DATE		YYYYMMDD	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Date of Athlete's Qualification
	E_Q_CITY		S(25)	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: City (Location) of Athlete's Qualification
	E_Q_COUNTRY		CC @Country	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Country ID of the Athlete's Qualification city (location)

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

Type /Code	Description	Expected
E_ENTRY /E_Q_TIME	Athlete's Qualifying Time. Only applies for Individuals.	Always, as soon as this information is known (it can be sent in both messages).
E_ENTRY /E_Q_DATE	Date of Athlete's Qualification. Only applies for Individuals.	Always, as soon as this information is known (it can be sent in both messages).
E_ENTRY /E_Q_CITY	City (Location) of Athlete's Qualification. Only applies for Individuals.	Always, as soon as this information is known (it can be sent in both messages).
E_ENTRY /E_Q_COUNTRY	Country ID of the Athlete's Qualification city (location). Only applies for Individuals.	Always, as soon as this information is known (it can be sent in both messages).

4.1.1.6 Message sort

Please, follow the general definition.

4.1.2 List of teams by discipline / List of teams by discipline update

4.1.2.1 Description

This message is the List of teams by discipline (and the update) as described in the ODF General Messages Interface Document.

4.1.2.2 Header Values

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

4.1.2.3 Trigger and Frequency

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

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 Swimming are:

- Team /Composition /Athlete
- Team /Discipline /RegisteredEvent
- Team /Discipline /RegisteredEvent /EventEntry

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

4.1.2.5 Message Values

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

Element	Attribute	M/O	Value	Comments
Team /Composition /Athlete	Code	M	S(20) with no leading zeroes	Athlete's ID of the listed team's member. Therefore, he/she makes part of the team's composition. You should be able to find further information about the team member in the list of athletes' message according to its @Code.
	Order	O	Numeric	Team member order

The following table describes in more detail the Team /Discipline /RegisteredEvent /EventEntry element in the case of Swimming.

Element: Team /Discipline /RegisteredEvent /EventEntry				
Type	**Code**	**Pos**	**Value**	**Description**
E_ENTRY	E_Q_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Team's Qualifying Time. Use Time format: MM is minutes

Element: Team /Discipline /RegisteredEvent /EventEntry				
Type	**Code**	**Pos**	**Value**	**Description**
				SS is seconds tt is hundredths of second
	E_Q_DATE		YYYYMMDD	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Date of Team's Qualification
	E_Q_CITY		S(25)	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: City (Location) of Team's Qualification
	E_Q_COUNTRY		CC @Country	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Country ID of the Team's Qualification city (location)

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

Type /Code	Description	Expected
E_ENTRY /E_Q_TIME	Team's Qualifying Time.	Always, as soon as this information is known (this information can be sent in both messages).
E_ENTRY /E_Q_DATE	Date of Team's Qualification.	Always, as soon as this information is known (this information can be sent in both messages).
E_ENTRY /E_Q_CITY	City (Location) of Team's Qualification.	Always, as soon as this information is known (this information can be sent in both messages).
E_ENTRY /E_Q_COUNTRY	Country ID of the Team's Qualification city (location).	Always, as soon as this information is known (this information can be sent in both messages).

4.1.2.6 Message sort

Please, follow the general definition.

4.1.3 Historical records

4.1.3.1 Description

This message is the Historical records as described in the ODF General Messages Interface Document.

In the case of Swimming, the message has to be sent for all the competition events, according to the ODF Common Codes document (record codes values sheet).

4.1.3.2 Header Values

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

4.1.3.3 Trigger and Frequency

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

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 Swimming are:

- HistoricalRecords /Record /RecordType /ExtRecords /ExtRecord
- HistoricalRecords /Record /RecordType /Competitor /RecordData (for Relay event units)
- HistoricalRecords /Record /RecordType /Competitor /Composition /Athlete /RecordData (for all event units except for Relay events)

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

4.1.3.5 Message Values

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

Element	Attribute	M/O	Value	Comments
HistoricalRecords /Record /RecordType	Code	M	CC @RecordType	Record type.
	Subcode	O	WRC order if Code=”WRC”	Mandatory in case of Code=”WRC” (“World Record Chronology (Last 10 WR)”).
HistoricalRecords /Record /RecordType /RecordData	ResultType	M	CC @ResultType	“TIME” Indicate that the result type for the record is a time.
	Result	M	MM:SS.tt 99:90.00	The result of the competitor for the record. Use Time format: MM is minutes SS is seconds tt is hundredths of second

Element	Attribute	M/O	Value	Comments
HistoricalRecords /Record /RecordType /Competitor /RecordData (just for team competitor's record)	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	O	S(40)	Text of the event name where the record was broken (e.g.: "World Championships", "Olympic Games", etc.). It will be sent if this information is available.
HistoricalRecords /Record /RecordType /Competitor /Composition /Athlete /RecordData (just for individual athlete's record)	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	O	S(40)	Text of the event name where the record was broken (e.g.: "World Championships", "Olympic Games", etc.). It will be sent if this information is available.

The following table describes in more detail the HistoricalRecords /Record /RecordType /Competitor /ExtRecords /ExtRecord element in the case of Swimming.

Element: HistoricalRecords /Record /RecordType /Competitor /ExtRecords /ExtRecord				
Type	**Code**	**Pos**	**Value**	**Description**
HER_RECORD	SW_SPLIT	N(2) 99	MM:SS.tt 99:90.00	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Sequential number from 1 to 99 for each split in the record, to indicate its number. It can be one or more (depending on the distance of the event unit). i.e.: for 50m - does not have split, for 100m - 1 split, for 200m - 3 splits, …
				For @Value: Split Time in the record Use Time format: MM is minutes SS is seconds tt is hundredths of second

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

Type /Code	Description	Expected
HER_RECORD /SW_SPLIT	Splits time in the record.	If it applies. Just for events units which have splits time in the record.

4.1.3.6 Message sort

Please, follow the general definition.

4.1.4 Start List

4.1.4.1 Description

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

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).

4.1.4.3 Trigger and Frequency

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

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 Swimming are:

- UnitInfos /UnitDateTime (following the general rules for this element)
- UnitInfos /UnitInfo
- UnitInfos /UnitInfo /Extensions
- UnitInfos /UnitInfo /Competitor can be included or not for UnitInfos /UnitInfo /Extensions /Extension code SW_ID (for Relay event units when the competitor's ID is not known for some performance category code)
- UnitInfos /UnitInfo /Competitor /Composition can be included or not for UnitInfos /UnitInfo /Extensions /Extension code SW_ID (for all events units except Relay when the athlete's ID is not known for some performance category code)
- Start /Competitor /EventUnitEntry (for Relay event units)
- Start /Competitor /Composition /Athlete /EventUnitEntry (for all event units except for Relay events)

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

4.1.4.5 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 Swimming, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Start	StartOrder	O	Numeric	Lane assignment or start order of the competitor in the start list.
	SortOrder	M	Numeric	Lane order.

The following table describes in more detail the UnitInfos /UnitInfo element and its child element Extensions in the case of Swimming.

Element: UnitInfos /UnitInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
UI_BEST_CC @PerformanceCategory	SW_RANK			N(2) 90	For @Type: Send proposed type (see codes section)

Element: UnitInfos /UnitInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Performer's result Rank at this performance category (for top 10 in each one), from 1 to 10.
		SW_ID		S(20) with no leading zeroes Or blank	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Competitor's ID at the performer's rank per this category. It could be the Team's ID for Relay event units or Athlete's ID (to identify an athlete) for the rest of event units. Send blank when competitor (in both cases) does not compete in the games.
		SW_RESULT		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Result time at performer's rank per this category. Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_CITY		S(30)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: City (location) at the performer's rank per this category.
		SW_DATE		YYYYMMDD Or	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code

Element: UnitInfos /UnitInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
				MMDD	For @Pos: Do not send anything
					For @Value: Result Date at the performer's rank per this category. For the performance category "CUY" (Current Year Performers), do not send the year.

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

Type /Code /Extension Code	Description	Expected
UI_BEST_CC @PerformanceCategory /SW_RANK /SW_ID /SW_RESULT /SW_CITY /SW_DATE	Best performers (top 10) for each rank (competitor's ID, result time, city and date) of each performance category.	Always, when this information is available.

The following table describes in more detail the optional attributes for UnitInfos /UnitInfo /Competitor (and UnitInfos /UnitInfo /Competitor /Composition when the person is an Athlete, not for team event units) that will have to be included when the competitor's ID is not known in UnitInfos /UnitInfo /Extensions /Extension (code SW_ID and @Value is blank), both for athletes and for teams Swimming.

Element	Attribute	M/O	Value	Comments
UnitInfos /UnitInfo /Competitor	Organisation	M	CC @Organisation	Organisation ID of the person (both for athletes and for teams) associated to the UnitInfos /UnitInfo /Extensions /Extension at the performer's rank per category.
UnitInfos /UnitInfo /Competitor /Composition /Athlete	FamilyName	M	S(25)	Family name of the person (athlete) associated to the UnitInfos /UnitInfo /Extensions /Extension at the performer's rank per category.
	GivenName	M	S(25)	Given name of the person (athlete) associated to the UnitInfos /UnitInfo /Extensions /Extension at the performer's rank per category.

The following table describes in more detail the Start /Competitor /EventUnitEntry element, which should be used in the case of Relay event units, or the Start /Competitor /Composition /Athlete /EventUnitEntry element, in the case of the rest of events.

Element: Start /Competitor /EventUnitEntry (in the case of Relay) Start /Competitor /Composition /Athlete /EventUnitEntry (for all events except for Relay)				
Type	**Code**	**Pos**	**Value**	**Description**
EUE_SW	SW_HEAT		N(2) 90	For @Type: Send proposed type

Element: Start /Competitor /EventUnitEntry (in the case of Relay) Start /Competitor /Composition /Athlete /EventUnitEntry (for all events except for Relay)				
Type	**Code**	**Pos**	**Value**	**Description**
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Heat number (it will correspond with the unit of the DocumentCode attribute in the ODF header).
	SW_LANE		N(2) 90	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Lane number of the competitor
	SW_SUBSTITUTE		S(1) (Y)	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Send “Y” if the competitor (athlete or team) is a reserve for Semi-final or Final
	SW_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.
	SW_Q_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Competitor’s (athlete or team) Qualifying Time. According to the phase it could be: the entry qualification time (for the heats), the result time for the phase in which the tied occurred (for a swim-off), or the result time from the previous phase (for final). Use Time format: MM is minutes SS is seconds

Element: Start /Competitor /EventUnitEntry (in the case of Relay) Start /Competitor /Composition /Athlete /EventUnitEntry (for all events except for Relay)				
Type	**Code**	**Pos**	**Value**	**Description**
				tt is hundredths of second

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

Type /Code	Description	Expected
EUE_SW /SW_HEAT	Competition Heat Number (not for the substitutes).	If applies, for all event units.
EUE_SW /SW_LANE	Competitor's Lane Number (not for the substitutes).	Always for competitors, when this information is known for all event units.
EUE_SW /SW_SUBSTITUTE	Flag that indicates when the competitor is a substitute (alternative).	Always, as soon as this information is known (just for Semi-final and Final event units).
EUE_SW /SW_IRM	Invalid result mark supplied by OVR before the race.	If applies, in the case of the team does not compete (just for Relay event units).
EUE_SW /SW_Q_TIME	Competitor's Qualifying time.	Always, as soon as this information is known.

4.1.4.6 Message sort

Please, follow the general definition.

4.1.5 Event Unit Results

4.1.5.1 Description

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

4.1.5.2 Header Values

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

4.1.5.3 Trigger and Frequency

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

- Official results: At the end of each heat

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 Swimming are:

- UnitInfos /UnitDateTime (following the general rules for this element)
- Result /RecordIndicators /RecordIndicator
- Result /Competitor /ExtendedResults /ExtendedResult (for Relay event units)
- Result /Competitor /ExtendedResults /ExtendedResult /Extensions (for Relay event units)
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult (for all event units; in the case of Relay, team members' detailed results).
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions (for all event units; in the case of Relay, team members' detailed results).

4.1.5.5 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.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Text	Rank of the competitor in the corresponding event unit. This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).
	RankEqual	O	S(1) (Y)	Send 'Y' if the Rank is equalled.
	ResultType	M	CC @ResultType	Result type, either time or IRM for the corresponding event unit (see codes section)
	Result	O	MM:SS.tt 99:90.00	Total result for the particular event unit. Send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second

Element	Attribute	M/O	Value	Comments
	IRM	O	CC @IRM	IRM for the particular event unit. Send just in the case @ResultType is IRM (see codes section)
	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.
Result /RecordIndicators /RecordIndicator	Order	M	Numeric	Order is always "1" for records broken/equalled in this Event Unit.
	Code	M	CC @RecordCode	Code which describes the record broken by the result value.
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken.

The following table describes in more detail the Result /Competitor /ExtendedResults /ExtendedResult element and its child element Extensions (only for Relay event units).

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_DIFF			MM:SS.tt 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Time difference for the whole team behind the leader (do not send for Result @Rank=1) Use Time format: MM is minutes SS is seconds tt is hundredths of second
	SW_LEG_CYCLE		N(1) 9	N(1) 9	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Number of cycle, two per leg. It's a sequential number from 1 to 8, between different legs of the team. (e.g.: Pos=1..2 for 1st leg, Pos=3..4 for 2nd leg, etc.)
					For @Value: Number of the leg (team members), from 1 to 4, for Relay.
		SW_T_RANK		N(1) 9	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos:

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					Do not send anything
					For @Value: Rank of cumulative split at this leg (for the team).
		SW_T_ERANK		S(1) (Y)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: It identifies if the rank at this leg (for the team) has been equalled, send “Y” in this case.
		SW_T_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send the cumulative split time at this leg (for the team). Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_RECORD_MARK	N(1) 9	CC @RecordType	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Send “1” for the current Record or incremental (send “2”) for the handling of Commonwealth record that is also an Area (Continental) record.
					For @Value: Send the record broken at this split point (when swimmer’s cumulative split time is a World, Commonwealth or Area/Continental record respectively), by the first leg of the team. If the cumulative time is a Commonwealth record, it may also be an Area (Continental) record; in this case send both.

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

Type /Code	Description	Expected

	/Extension Code		
ER_SW /SW_DIFF		Result time difference for the whole team behind of the leader	Always, just for Relay event units (do not send for result @Rank=1)
ER_SW /SW_LEG_CYCLE		Team's performance at each cycle per leg (at the middle and at the exchange/finish, (two for each leg), and according to the cycles defined in the message "Discipline Configuration" (SW_CYCLE attribute).	Just for Relay event units
	/SW_T_RANK	Rank of the team at this leg	Always
	/SW_T_ERANK	Equalled rank indicator of the team at this leg.	Always (if it applies)
	/SW_T_TIME	Result time of the team at this leg	Always
	/SW_RECORD_MARK	Record mark at this split for cumulative split time when break a World, a Commonwealth or an Area/Continental record. In the case of Commonwealth record plus an Area (Continental) record, if it applies.	If it applies (only for the first leg of the team)

The following table describes in more detail the Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element and its child element Extensions (for all event units).

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_DIFF			MM:SS.tt 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Time difference for the athlete behind the leader (do not send for Result @Rank=1). Use Time format: MM is minutes SS is seconds tt is hundredths of second
	SW_REACTION_TIME			S.tt 0.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @ Pos: Do not send anything
					For @Value: Reaction time of the athlete Use Time format: S is seconds tt is hundredths of second
	SW_SPLIT		N(2) 90		For @Type: Send proposed type
					For @Code:

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					Send proposed code
					For @Pos: The number that identifies the split point, from 1 to the total number of splits result points.
					For @Value: Do not send anything
		SW_SPLIT_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send the split result time (from this split point to the previous one). Not cumulative time. Don't send for the first split in Individual events. Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_RANK		N(1) 9	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Cumulative rank at this split point.
		SW_ERANK		S(1) (Y)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: It identifies if the rank at this split point has been equalled, send "Y" in this case.
		SW_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Time result from the start of the race up to this split point. Is a cumulative result time.

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_SPLIT_RECORD	N(1) 9	CC @RecordType	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Send “1” for the current Record or incremental (send “2”) for the handling of Commonwealth record that is also an Area (Continental) record.
					For @Value: Send the record broken at this split point (when swimmer’s cumulative split time is a World or Commonwealth record respectively for Individual events, or a World, Commonwealth or Area/Continental record respectively for the first leg of the team in Relay events). If the cumulative time is a Commonwealth record, it may also be an Area (Continental) record; in this case send both.

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

Type /Code **/Extension Code**	**Description**	**Expected**
ER_SW /SW_DIFF	Result time difference for the athlete to the leader.	Just for Individual event units (do not send for result @Rank=1)
ER_SW /SW_REACTION_TIME	Reaction time of the athlete	Always
ER_SW /SW_SPLIT	Athlete’s split data for each of the split points defined in the event (from 1 to n, according to the event distance defined in the “Discipline Configuration” message as: 1..2 for 100m events, 1..4 for 200m events, etc.).	Individual event units (except for 50m), and Relay event units
/SW_SPLIT_TIME	Split result time (from this split point to the previous one).	Always (don’t send for first split in Individual events), except for Relay event units
/SW_RANK	Cumulative rank at this split point.	Always, except for Relay event units
/SW_ERANK	Equalled rank indicator at this split point.	Always (if it applies), except for Relay event units
/SW_TIME	Time result from the start of the race up to this split point.	Always
/SW_SPLIT_RECORD	The record broken at this split point (when	If it applies (for Individual event units

Type /Code	/Extension Code	Description	Expected
		swimmer's cumulative split time is a World or Olympic record respectively for Individual events or a World, Commonwealth or Continental record respectively for first leg of the team in Relay events). In the case of Commonwealth record plus an Area (Continental) record, if it applies.	and just for the first leg of the team in Relay event units)

4.1.5.6 Message sort

Please, follow the general definition.

4.1.6 Phase Results

4.1.6.1 Description

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

This message is sent just for the different phases (Heats and Semi-finals) of Individual and Relay events.

4.1.6.2 Header Values

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

4.1.6.3 Trigger and Frequency

Please, follow the general definition.

4.1.6.4 Message Structure

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

- Result /RecordIndicators /RecordIndicator
- Result /Competitor /ExtendedResults /ExtendedResult (for Relay event units)
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult (for all event units except for Relay events)

4.1.6.5 Message Values

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

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Text	Rank of the competitor in the corresponding phase. This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).
	RankEqual	O	S(1) (Y)	Send ‘Y’ if the Rank is equalled.
	ResultType	M	CC @ResultType	Result type, either time or IRM for the corresponding phase (see codes section)
	Result	O	MM:SS.tt 99:90.00	Total result for the particular phase. Send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second
	IRM	O	CC @IRM	IRM for the particular phase. Send just in the case @ResultType is IRM (see codes section)

Element	Attribute	M/O	Value	Comments
	QualificationMark	O	CC @Qualification Mark Or blank	The code which gives an indication on the qualification of the competitor for the next round of the competition. (see codes section) Blank for non-qualified.
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular phase, 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.
Result /RecordIndicators /RecordIndicator	Order	M	Numeric	Order is always “1” for the latest (best) record of each type broken/equalled up to the current phase.
	Code	M	CC @RecordCode	Code which describes the record broken by the result value.
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken.

The following table describes in more detail the Result /Competitor /ExtendedResults /ExtendedResult element (only for Relay event units).

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_DIFF			MM:SS.tt 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Time difference for the whole team behind of the leader (do not send for Result @Rank=1) Use Time format: MM is minutes SS is seconds tt is hundredths of second

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

Type /Code	Description	Expected
ER_SW /SW_DIFF	Result time difference for the whole team behind of the leader	Always, just for Relay event units (do not send for result @Rank=1)

The following table describes in more detail the Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element (for all event units except for Relay).

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

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_DIFF			MM:SS.tt 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Time difference for the athlete behind of the leader (do not send for Result @Rank=1) Use Time format: MM is minutes SS is seconds tt is hundredths of second

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

Type /Code	Description	Expected
ER_SW /SW_DIFF	Result time difference for the athlete to the leader.	Always (do not send for result @Rank=1), except for Relay event units

4.1.6.6 Message sort

Please, follow the general definition.

4.1.7 Cumulative Results

4.1.7.1 Description

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

In the case of Swimming, the message has to be sent up to the end of an event unit within a phase (just for the phases Heats and Semi-finals) of Individual and Relay events.

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.

4.1.7.2 Header Values

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

Moreover, the header's attribute DocumentSubtype will be informed at event unit level, would be the cumulative results up to the end of the referenced event unit for the phases of Heats and Semi-finals (DDGEEEPUU, where EEE will be for the events of Individuals and Relays, and P will be '9' for Heats phase and '2' for Semi-finals phase).

4.1.7.3 Trigger and Frequency

Please, follow the general definition.

4.1.7.4 Message Structure

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

- ExtendedInfos /ExtendedInfo
- CumulativeResult /RecordIndicators /RecordIndicator
- CumulativeResult /ResultItems /ResultItem /Result

4.1.7.5 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.

Element	Attribute	M/O	Value	Comments
CumulativeResult	Rank	O	Text	Rank of the competitor in the cumulative result in the corresponding phase (at the end of each event unit within a phase). This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).
	RankEqual	O	S(1) (Y)	Send 'Y' if the Rank is equalled.
	ResultType	M	CC @ResultType	Result type, either time or IRM for the cumulative result within the corresponding phase (see codes section)

Element	Attribute	M/O	Value	Comments
	Result	O	MM:SS.tt 99:90.00	The cumulative result within the corresponding phase. This attribute is optional, send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second
	IRM	O	CC @IRM	The invalid rank mark (IRM) within the corresponding phase, in case it is assigned. Send just in the case @ResultType is IRM (see codes section)
	Qualification Mark	O	CC @QualificationMark Or blank	The code which gives an indication on the qualification of the competitor for the next round of the competition. (see codes section) Blank for non-qualified.
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results within the particular phase, 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.
CumulativeResult /RecordIndicators /RecordIndicator	Order	M	Numeric	Order is always “1” for the latest (best) record of each type broken/equalled up to the current phase.
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /Result value.
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken.
CumulativeResult /ResultItems /ResultItem	Phase	M	CC @Phase	Phase code of the latest RSC schedule item (either phase or unit) to which the cumulative result is updated to. Possible values are: (9) Heats (2) Semi-finals
	Unit	M	CC @Unit	Unit code of the latest RSC schedule item to which the cumulative results is updated to.
CumulativeResult /ResultItems /ResultItem /Result	Rank	O	Text	Rank of the competitor in the result for the event unit. This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).
	RankEqual	O	S(1) (Y)	Send ‘Y’ if the Rank is equalled.
	ResultType	M	CC @ResultType	Result type, either time or IRM for the event unit (see codes section)

Element	Attribute	M/O	Value	Comments
	Result	O	MM:SS.tt 99:90.00	The result of the competitor for the event unit. This attribute is optional, send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second
	IRM	O	CC @IRM	The invalid rank mark (IRM) for the event unit, in case it is assigned. Send just in the case @ResultType is IRM (see codes section)

The following table describes in more detail the ExtendedInfos /ExtendedInfo element in the case of Swimming.

Element: ExtendedInfos /ExtendedInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
EI_SW	SW_LAST_QUAL			S(20) with no leading zeroes	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Competitor's ID, to identify an athlete or a team according to the event, for the last qualified at this phase (it would be based on the rank of the competitor in the cumulative result at the end of each event unit within a phase).

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

Type /Code /Extension Code	Description	Expected
EI_SW /SW_LAST_QUAL	The competitor ID for the last qualified at the corresponding phase (based in the cumulative result at the end of each event unit within a phase).	Always (for Individual and Relay events)

4.1.7.6 Message sort

Please, follow the general definition.

4.1.8 Records

4.1.8.1 Description

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

In the case of Swimming, the message has to be sent for all the competition events, according to the ODF Common Codes document (record codes values sheet).

4.1.8.2 Header Values

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

4.1.8.3 Trigger and Frequency

- As soon as a record is broken and at any change.

4.1.8.4 Message Structure

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

- Record /RecordType /RecordEntries /RecordEntry /ExtRecords /ExtRecord
- Record /RecordType /RecordEntries /RecordEntry /Competitor /RecordData (for Relay event units)
- Record /RecordType /RecordEntries /RecordEntry /Competitor /Composition /Athlete /RecordData (for all event units except for Relay events).

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

4.1.8.5 Message Values

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

Element	Attribute	M/O	Value	Comments
Record /RecordType	Code	M	CC @RecordType	Record type.
	Subcode	O	WRC order if Code=”WRC”	Mandatory in case of Code=”WRC” (“World Record Chronology (Last 10 WR)”).
Record /RecordType /RecordEntries /RecordEntry /RecordData	ResultType	M	CC @ResultType	“TIME” Indicate that the result type for the record is a time.
	Result	M	MM:SS.tt 99:90.00	The result of the competitor for the record. Use Time format: MM is minutes SS is seconds tt is hundredths of second

Element	Attribute	M/O	Value	Comments
Record /RecordType /RecordEntries /RecordEntry /Competitor /RecordData (just for team competitor's record)	Historical	M	S(1) (Y, N)	Indicates if the record is achieved during the current competition or not. Send 'Y' if not (it is from a previous competition).
	RSC	O	Concatenation of the following: CC @Discipline CC @DisciplineGender CC @Event CC @Phase CC @Unit	RSC of the Event Unit for the current competition where the record is reached. Send always, is mandatory, in the case @Historical='N' (current competition).
	Time	O	MillisTime	The time where the record was broken in. Send always, is mandatory, in the case @Historical='N' (current competition).
	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 (for the current competition, the date will be assumed as the date for the @RSC attribute according to its schedule)
	Event	O	S(40)	Text of the event name where the record was broken in a previous competition (e.g.: "World Championships", "Olympic Games", etc.). Send if it is available when @Historical='Y'.
Record /RecordType /RecordEntries /RecordEntry /Competitor /Composition /Athlete /RecordData (just for individual athlete's record)	Historical	M	S(1) (Y, N)	Indicates if the record is achieved during the current competition or not. Send 'Y' if not (it is from a previous competition).
	RSC	O	Concatenation of the following: CC @Discipline CC @DisciplineGender CC @Event CC @Phase CC @Unit	RSC of the Event Unit for the current competition where the record is reached. Send always, is mandatory, in the case @Historical='N' (current competition).
	Time	O	MillisTime	The time where the record was broken in. Send always, is mandatory, in the case @Historical='N' (current competition).
	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 (for the current competition, the date will be assumed as the date for the @RSC attribute according to its schedule)

Element	Attribute	M/O	Value	Comments
	Event	O	S(40)	Text of the event name where the record was broken in a previous competition (e.g.: “World Championships”, “Olympic Games”, etc.). Send if it is available when @Historical=’Y’.

The following table describes in more detail the Record /RecordType /RecordEntries /RecordEntry /Competitor /ExtRecords /ExtRecord element in the case of Swimming.

Element: Record /RecordType /RecordEntries /RecordEntry /Competitor /ExtRecords /ExtRecord				
Type	**Code**	**Pos**	**Value**	**Description**
ER_RECORD	SW_SPLIT	N(2) 99	MM:SS.tt 99:90.00	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos : Sequential number from 1 to 99 for each split in the record, to indicate its number. It can be one or more (depending on the distance of the event unit).
				For @Value: Split Time in the record Use Time format: MM is minutes SS is seconds tt is hundredths of second

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

Type /Code	Description	Expected
ER_RECORD /SW_SPLIT	Splits time in the record	If it applies. Just for events units which have splits time in the record.

4.1.8.6 Message sort

Please, follow the general definition.

4.1.9 Discipline configuration

4.1.9.1 Description

This message is the Discipline configuration message as described in the ODF General Messages Interface Document.

4.1.9.2 Header Values

Please, follow the general definition.

4.1.9.3 Trigger and Frequency

Please, follow the general definition.

4.1.9.4 Message Structure

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

- Configs /Config /ExtendedConfig /ExtendedConfigItem

4.1.9.5 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 General Messages Interface Document) that are used in the case of Swimming, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Configs /Config	Gender	M	CC @DisciplineGender	Gender code of the RSC.
	Event	M	CC @Event	Event code of the RSC.
	Phase	O	CC @Phase	Phase code of the RSC. There are the following phases for: (9) Heats (2) Semi-finals (1) Final It should be informed just in the case that the Information is by Phase. Otherwise, do not include.

The following table describes in more detail the Configs /Config /ExtendedConfig element and its child element ExtendedConfigItem.

Element: Configs /Config /ExtendedConfig					
Type	**Code**	**ExtendedConfigItem Code**	**Pos**	**Value**	**Description**
EC_SW	SW_EVENT_NO (Send by event)			N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos : Do not send anything
					For @Value: Event Number to identify whole event (e.g.: 16 for "Men's 100m Freestyle", 20 for ""Women's 100m

Element: Configs /Config /ExtendedConfig					
Type	**Code**	**ExtendedConfigItem Code**	**Pos**	**Value**	**Description**
					Freestyle", etc.)
	SW_NUM_GROUPS (Send by phase)			N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Total number of groups per phase (except for the Final), i.e.: -for Heats phase: the total number of heats, -for Semi-finals: the total number of semi-finals.
	SW_RACE_DISTANCE (Send by event)			N(4) 9990	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Distance for the event, from start until finish line (in meters).
	SW_SPLIT (Send by event)		N(2) 90		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos Send the number that identifies each of the split points (according to the Individual/Relay event distance, from 1 to n, where n is when the race finishes). (e.g.: for 100m events, 2 splits: (1):50m, (2):100m -the finish- -for 200m events, 4 splits: (1):50m, (2):100m, (3):150m, (4):200m -the finish-)
					For @Value: Do not send anything
		SW_DISTANCE		N(4) 9990	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code

Element: Configs /Config /ExtendedConfig					
Type	**Code**	**ExtendedConfigItem Code**	**Pos**	**Value**	**Description**
					For @Pos: Do not send anything
					For @Value: Distance from start at this split point (in meters).
		SW_LAST		S(1) (Y)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send 'Y' for the last split point (the finish).
		SW_STROKE		CC @Stroke	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Stroke for the split in Individual / Relay Medley events. There are 4 strokes as follows for: (1) Freestyle (2) Butterfly (3) Breaststroke (4) Backstroke
	SW_CYCLE (Send by event)		N(1) 9	S(10)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send the number of each cycle for Relay events, from 1 to 8. There will be always 2 cycles per leg, independent of the total distance of the event for the team (400m for 4x100m or 800m for 4x200m)
					For @Value: Send the label for each cycle related to the splits points included in each one (1 or 2, according to the total distance of the event

Element: Configs /Config /ExtendedConfig					
Type	**Code**	**ExtendedConfigItem Code**	**Pos**	**Value**	**Description**
					for the team). (e.g.: for 4x100m (1 split per cycle): “50m”, “100m”, “150m”, …,”400m” for 4x200m (2 splits per cycle): “50m/100m”, “150m/200m”, “250m/300m”, …,”750m/800m”)
EC_QUALIFICATION_RULE	QR_RANK_QUALIFY_NEXT_ROUND (Send by phase)		N(1) 9	N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code for the qualification rule. QR_RANK_QUALIFY_NEXT_ROUND is the code that indicates the qualification for next round based on rank.
					For @Pos: Send 1 to indicate first rank included in the @Code rule. Send 2 to indicate last rank included in the @Code rule.
					For @Value: Send the rank according to @Code rule and @Pos (i.e.: for Individual - heats phase, will be: Pos=1, Value=1 Pos=2, Value=16 It means 1-16 ranks from the current phase will qualify to the next phase).

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

Type /Code /ExtendedConfigItem Code	Description	Expected
EC_SW /SW_EVENT_NO	It’s the Event number by gender and event.	Send by event, always that the information is available.
EC_SW /SW_NUM_GROUPS	It’s the total number of groups (heats or semi-finals) per phase if apply.	Send by phase (except for Final), when it is available.
EC_SW /SW_RACE_DISTANCE	Final distance for the event, from start until finish line. For relay events, the total distance of the event for the team (400m for 4x100m or 800m for 4x200m)	Always, send by event (however has more sense for the events without split points, as 50m Individuals)
EC_SW /SW_SPLIT /SW_DISTANCE	Split points defined for event, according to the event distance (split number,	Always, send by event (except for 50m Individual events).

Type /Code /ExtendedConfigItem Code	Description	Expected
/SW_LAST	distance from start and indicating which the last one is).	
EC_SW /SW_SPLIT /SW_STROKE	Split points defined for event, according to the event distance (stroke for each one in Individual / Relay Medley).	Always, send by event (just for Individual and Relay Medley events).
EC_SW /SW_CYCLE	Cycles defined for Relay events, 8 in total (2 cycles per leg), related to the splits points included in each one (1 or 2, according to the total distance of the event for the team).	Send by event (just for Relay events)
EC_QUALIFICATION_RULE /QR_RANK_QUALIFY_NEXT_ROUND	Qualification rule for next round based on rank.	Send by phase (except for Finals), always if the rule applies to the competition.

4.1.9.6 Message sort

Please, follow the general definition.

5 Real time

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

5.1 Real Time Applicable Messages

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

Message Type	Message name	Message used in this sport	Message extended in this document	Para-Sport events	
				Message used in this sport	Message extended in this document
DT_RT_GM	RT Discipline/Venue good morning	X		X	
DT_RT_GN	RT Discipline/venue good night	X		X	
DT_RT_KA	RT Discipline/venue keep alive	X		X	
DT_RT_CLOCK	RT Clock				
DT_RT_RESULT	RT Event Unit Results	X	X	X	X
DT_RT_CUMULATIVE_RESULT	RT Cumulative Results	X	X	X	X

5.1.1 RT Event Unit Results

5.1.1.1 Description

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

5.1.1.2 Header Values

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

5.1.1.3 Trigger and Frequency

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

- ResultStatus=”LIVE_UPDATE”
    - T1: Trigger at the beginning of the race.
    - T2: Trigger when an athlete completes a split.
    - T3: Trigger when the leader completes a split.
    - T4: Trigger when an athlete finishes a leg (there is a change of athletes) for Relay events only.
    - T5: Trigger when an athlete or team breaks a Record or equalled.
    - T6: Trigger when a competitor obtains an invalid result mark (during the race).
    - T7: Trigger when an athlete or team (the last competitor) arrives to finish.
    - T8: Trigger when a race finishes
- For other ResultStatus, follow the general definition.

5.1.1.4 Message Structure

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

- UnitInfos /UnitDateTime (following the general rules for this element)
- UnitInfos /UnitInfo
- UnitInfos /UnitInfo /Extensions
- Result /RecordIndicators /RecordIndicator
- Result /Competitor /ExtendedResults /ExtendedResult (for Relay event units)
- Result /Competitor /ExtendedResults /ExtendedResult /Extensions (for Relay event units)
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult (for all event units; in the case of Relay, team members’ detailed results).
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions (for all event units; in the case of Relay, team members’ detailed results).

Please, follow the general considerations for all ResultStatus.

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

5.1.1.5 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	Text	Rank of the competitor in the corresponding event unit. This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).	T2 or T3 T7, T8
	RankEqual	O	S(1) (Y,N)	Send 'Y' if the Rank is equalled. Send "N" only if Rank was equalled in previous RT message and is not equalled anymore.	T2 or T3 T7, T8
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding event unit (see codes section)	T6, T7, T8
	Result	O	MM:SS.tt 99:90.00	Result for the particular event unit. This attribute is optional, send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second	T7, T8
	IRM	O	CC @IRM	The invalid result mark (IRM) for the particular event unit, in case it is assigned. Send just in the case @ResultType is IRM (see codes section)	T6, T7, T8
	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.	T2 or T3 T7, T8
Result /RecordIndicators /RecordIndicator	Order	M	Numeric	Order is always "1" for records broken/equalled in this Event Unit.	T5, T7, T8
	Code	M	CC @RecordCode	Code which describes the record broken by the result value.	T5, T7, T8
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken.	

The following table describes in more detail the UnitInfos /UnitInfo element and its child element Extensions in the case of Swimming.

Element: UnitInfos /UnitInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
UI_RESULTS	SW_CURRENT_SPLIT			N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Number of the current split result point (according to the SW_SPLIT @Pos of "Discipline Configuration" message).
	SW_CURRENT_CYCLE			N(1) 9	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Number of the current cycle result point (according to the SW_CYCLE @Pos of "Discipline Configuration" message).
	SW_LEADER_SPLIT		N(2) 90		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send number of the current split point.
					For @Value: Do not send anything
		SW_LEADER		S(20) with no leading zeroes	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Athlete's ID, to identify an athlete, for the leader at this split point.
		SW_DIFF_WC		-SS.tt -90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos:

Element: UnitInfos /UnitInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					Do not send anything
					For @Value: Time behind the WR (World Record) for leader and all under WR split based on this split point.

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

Type /Code /Extension Code	Description	Expected
UI_RESULTS /SW_CURRENT_SPLIT	Number of current split point (for Individual events -except 50m- and Relay events), according to the SW_SPLIT @Pos of the "Discipline Configuration" message	Individual events (except 50m) and Relay events: T1, T2 or T3
UI_RESULTS /SW_CURRENT_CYCLE	Number of current cycle split point (for Relay event units), according to the SW_CYCLE @Pos of the "Discipline Configuration" message	Just for Relay events: T1, T2 or T3, T4
UI_RESULTS /SW_LEADER_SPLIT	Send the athlete ID for leader at the current split point, with the time behind the WR (World Record).	Just for Individual events (except 50m): T3 (for each split except for the last -at finish-)
/SW_LEADER		
/SW_DIFF_WC		

The following table describes in more detail the Result /Competitor /ExtendedResults /ExtendedResult element and its child element Extensions (only for Relay event units).

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_LEG_CYCLE		N(2) 90	N(1) 9	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Number of cycle, two per leg. It's a sequential number from 1 to 16, between different legs of the team. (e.g.: Pos=1..2 for 1st leg, Pos=3..4 for 2nd leg, etc.)
					For @Value: Number of the leg (team members), from 1 to 4, for Relay.
		SW_T_RANK		N(1) 9	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					For @Pos: Do not send anything
					For @Value: Rank of cumulative split at this leg (for the team).
		SW_T_ERANK		S(1) (Y, N)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: It identifies if the rank at this leg (for the team) has been equalled (send “Y” in this case), or not and has changed (send “N”).
		SW_T_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send the cumulative split time at this leg (for the team). Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_RECORD_MARK		CC @RecordType	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send the record broken at this split point (when swimmer’s cumulative split time is an Official record), by the first leg of the team.
	SW_LAST_FINISHED		N(2) 90	S(1) (Y,N)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @ Pos: Number of cycle, two per leg. It’s a sequential number from 1 to 16, between different legs of the team. (e.g.: Pos=1..2 for 1st leg,

Element: Result /Competitor /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					Pos=3..4 for 2nd leg, etc.) Send '0' when the team has finished the race.
					For @Value: Send "Y" when the last time corresponds to this competitor (finishes the race), "N" otherwise.

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

Type /Code /Extension Code	Description	Expected
ER_SW /SW_LEG_CYCLE	Team's performance at each cycle (two for each leg) with their corresponding splits points, and according to the cycles defined in the message "Discipline Configuration" (SW_CYCLE attribute).	Just for Relay event units: T2, T4, T7 and T5 (if it applies)
/SW_T_RANK	Rank of the team at this leg.	Always
/SW_T_ERANK	Equalled rank indicator of the team at this leg.	Always (if it applies)
/SW_T_TIME	Result time of the team at this leg.	Always
/SW_RECORD_MARK	Record mark at this split for cumulative split time when break an Official record (World, Commonwealth or Area/Continental record).	If applies: T5 (only for the first leg of the team)
ER_SW /SW_LAST_FINISHED	Indicates that this competitor has just finished the race.	Just for Relay event units: T2, T4, T7 and T5 (if it applies)

The following table describes in more detail the Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element and its child element Extensions (for all event units).

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
ER_SW	SW_REACTION_TIME			S.tt 0.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @ Pos: Do not send anything
					For @Value: Reaction time of the athlete Use Time format: S is seconds tt is hundredths of second
	SW_SPLIT		N(2) 90		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: The number that identifies the split point, from 1 to the total number of

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					splits result points.
					For @Value: Do not send anything
		SW_RANK		N(1) 9	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Cumulative rank at this split point.
		SW_ERANK		S(1) (Y, N)	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: It identifies if the rank at this split point has been equalled (send “Y” in this case), or not and has changed (send “N”).
		SW_TIME		MM:SS.tt 99:90.00	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Time result from the start of the race up to this split point. Is a cumulative result time. Use Time format: MM is minutes SS is seconds tt is hundredths of second
		SW_SPLIT_RECORD		CC @RecordType	For @Type: Send proposed code (as type)
					For @Code: Send proposed extension code
					For @Pos: Do not send anything
					For @Value: Send the record broken at this split point (when swimmer’s split time is a World or Commonwealth record respectively).
	SW_LAST_FINISHED		N(1) 9	S(1) (Y,N)	For @Type: Send proposed type
					For @Code: Send proposed code

Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
					For @ Pos: The number that identifies the split point, from 1 to the total number of splits result points. Send '0' when the athlete has finished the race.
					For @Value: Send "Y" when the last time corresponds to this competitor (completes/finishes a split or finishes the race), "N" otherwise.
	SW_CURRENT_COMPETITOR			S(1) (Y,N)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @ Pos: Do not send anything
					For @Value: Send "Y" when this competitor is currently swimming, and "N" otherwise (if not and it has changed).

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

Type /Code	**/Extension Code**	**Description**	**Expected**
ER_SW /SW_REACTION_TIME		Reaction time of the athlete	Individual and Relay events: T1, T4
ER_SW /SW_SPLIT		Athlete's split data for each of the split points in the event (from 1 to n, according to the Individual event distance defined in the "Discipline Configuration" message as: 1..2 for 100m events, 1..4 for 200m events, etc.) except for the last split (so i.e.: 1 for 100m events, 1..3 for 200m events, etc.).	Individual events (except 50m): T2 (except for the last split)
	/SW_RANK	Cumulative rank at this split point.	Always
	/SW_ERANK	Equalled rank indicator at this split point.	Always (if it applies)
	/SW_TIME	Time result from the start of the race up to this split point.	Always
	/SW_SPLIT_RECORD	The record broken at this split point (when swimmer's split time is a World or Olympic record respectively).	Just for Individual events (If it applies)
ER_SW /SW_LAST_FINISHED		Indicates that this competitor has just finished a split or the race.	T2
ER_SW /SW_CURRENT_COMPETITOR		Indicates that this competitor (corresponding to the athlete/leg -as team member-) is currently in the pool.	Just for Relay events: T1, T4

5.1.1.6 Message sort

Please, follow the general definition.

5.1.2 RT Cumulative Results

5.1.2.1 Description

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

In the case of Swimming, the message has to be sent up to the end of an event unit within a phase (just for the phases Heats and Semi-finals) of Individual and Relay events.

The RT 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.

5.1.2.2 Header Values

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

Moreover, the header's attribute DocumentSubtype will be informed at event unit level, would be the cumulative results up to the end of the referenced event unit for the phases of Heats and Semi-finals (DDGEEEPUU, where EEE will be for the events of Individuals and Relays, and P will be '9' for Heats phase and '2' for Semi-finals phase).

5.1.2.3 Trigger and Frequency

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

- ResultStatus="LIVE_UPDATE"
    - T1: Trigger at the beginning of the race
    - T2: Trigger when a race finishes
- For other ResultStatus, follow the general definition.

5.1.2.4 Message Structure

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

- ExtendedInfos /ExtendedInfo
- CumulativeResult /RecordIndicators /RecordIndicator
- CumulativeResult /ResultItems /ResultItem /Result

Please, follow the general considerations for all ResultStatus.

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

5.1.2.5 Message Values

The following table describes in more detail the CumulativeResult element and its child elements RecordsIndicators and ResultsItems.

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
CumulativeResult	Rank	O	Text	Rank of the competitor in the cumulative result in the corresponding phase (at the end of each event unit within a phase). This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).	Individual/Relay events: T1, T2
	RankEqual	O	S(1) (Y,N)	Send 'Y' if the Rank is equalled. Send "N" only if Rank was equalled in previous RT message and is not equalled anymore.	
	ResultType	M	CC @ResultType	Result type, either time or IRM for the cumulative result within the corresponding phase (see codes section)	
	Result	O	MM:SS.tt 99:90.00	The cumulative result within the corresponding phase. This attribute is optional, send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second	
	IRM	O	CC @IRM	The invalid rank mark (IRM) within the corresponding phase, in case it is assigned. Send just in the case @ResultType is IRM (see codes section)	
	Qualification Mark	O	CC @Qualification Mark Or blank	The code which gives an indication on the qualification of the competitor for the next round of the competition. (see codes section) Blank for non-qualified.	
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results within the particular phase, 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.	
CumulativeResult /RecordIndicators /RecordIndicator	Order	M	Numeric	Order is always "1" for the latest (best) record of each type broken/equalled up to the current phase.	Individual/Relay events: T1, T2

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
	Code	M	CC @RecordCode	Code which describes the record broken by the CumulativeResult /Result value.	
	RecordType	M	CC @RecordType	Code which specifies the level at which the record is broken.	
CumulativeResult /ResultItems /ResultItem	Phase	M	CC @Phase	Phase code of the latest RSC schedule item (either phase or unit) to which the cumulative result is updated to. Possible values are: (9) Heats (2) Semi-finals	Individual/Relay events: T2
	Unit	M	CC @Unit	Unit code of the latest RSC schedule item to which the cumulative results is updated to.	
CumulativeResult /ResultItems /ResultItem /Result	Rank	O	Text	Rank of the competitor in the result for the event unit. This attribute is optional because the competitor could get an invalid rank mark (in this case, it will be blank).	Individual/Relay events: T2
	RankEqual	O	S(1) (Y,N)	Send 'Y' if the Rank is equalled. Send "N" only if Rank was equalled in previous RT message and is not equalled anymore.	
	ResultType	M	CC @ResultType	Result type, either time or IRM for the event unit (see codes section)	
	Result	O	MM:SS.tt 99:90.00	The result of the competitor for the event unit. This attribute is optional, send just in the case @ResultType is Time (see codes section). Use Time format: MM is minutes SS is seconds tt is hundredths of second	
	IRM	O	CC @IRM	The invalid rank mark (IRM) for the event unit, in case it is assigned. Send just in the case @ResultType is IRM (see codes section)	

The following table describes in more detail the ExtendedInfos /ExtendedInfo element in the case of Swimming.

Element: ExtendedInfos /ExtendedInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**

Element: ExtendedInfos /ExtendedInfo					
Type	**Code**	**Extension Code**	**Pos**	**Value**	**Description**
EI_SW	SW_LAST_QUAL			S(20) with no leading zeroes	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Competitor's ID, to identify an athlete or a team according to the event, for the last qualified at this phase (it would be based on the rank of the competitor in the cumulative result at the end of each event unit within a phase).

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

Type /Code /Extension Code	Description	Expected
EI_SW /SW_LAST_QUAL	The competitor ID for the last qualified at the corresponding phase (based in the cumulative result at the end of each event unit within a phase).	Individual and Relay events: T1, T2

5.1.2.6 Message sort

Please, follow the general definition.

6 PDF feed

6.1 PDF Applicable Messages

Please refer to the same section of the ODF General Messages Interface Document.

DOCUMENT CONTROL

Version history

Version	Date	Comments
R1 v1.0	15 Mar 2013	First version (Submitted for Review version)
R1 v1.1	12 Apr 2013	SFA version
R1 v1.2	19 Apr 2013	APP version
R1 v1.3	01 Aug 2013	Pre-integration comments included and some issues/improvements - (external delivery)
R1 v1.4	16 Jan 2014	Some minor issues/improvements - (external delivery)

File reference: ODF/INT136 R1 v1.4 APP (SW)

Change Log

Version	Status	Changes on version
R1 v1.0	SFR	• First version
R1 v1.1	SFA	• Submitted for Approval version
R1 v1.2	APP	• Approved version
R1 v1.3	APP	• (def.#85008) DT_CONFIG: Updated the extended code SW_STROKE (of the code SW_SPLIT) to be sent also for Medley Relay events • (def.#95131 - after pre-integration) DT_RT_RESULT: Updated the code SW_CURRENT_SPLIT to be sent also for Relay events.
R1 v1.4	APP	• Updated the DT_POOL_STANDING message name (in section 4.1). • DT_PARTIC_TEAMS / DT_PARTIC_TEAMS_UPDATE: Included the reference to the optional element Team /Composition /Athlete. • DT_RESULT: Included the SW_DIFF code for Individual event units at element Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult (removed by mistake).

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