

Olympic Data Feed

ODF Cycling Road 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 Cycling Road 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 Cycling Road 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

		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 Cycling Road 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 Cycling Road.

Any ODF Cycling Road 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 The codes LAP, OTL and REL only send for Road raced	Code	Description
	DNF	Did not finish
	DNS	Did not start
	DSQ	Disqualified
	LAP	Lapped
	OTL	Over Time Limit, Riders placing are given by the Commissaries. Riders who have completed the race, but are outside of the time limit, should be presented with their actual time rather than the time limit.
CC @ResultType	Code	Description
	IRM	IRM status
	RANK	Rank without final result time
	TIME	Time
CC @RunStatus	Code	Description
	F	finished
	NST	not started
CC @TemperatureType	Code	Description
	MIN	Minim temperature
	MAX	Max temperature
CC @TemperatureUnit	Code	Description
	C	Celsius

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 Cycling Road, 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.

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_UPDATE	List of participants by discipline update	X	X
DT_PARTIC_TEAMS	List of teams		
DT_PARTIC_TEAMS_UPDATE	List of teams update		
DT_MEDALS	Medal standings	Global	
DT_MEDALLISTS_DAY	Medallists of the day	Global	
DT_HISTORIC_RECORD	Historical records		
DT_GLOBAL_GM	Global good morning	Global	
DT_GLOBAL_GN	Global good night	Global	
DT_START_LIST	Start List	X	X
DT_RESULT	Event Unit Results	X	X
DT_PHASE_RESULT	Phase Results		
DT_CUMULATIVE_RESULT	Cumulative Results		
DT_POOL_STANDING	Pool Standings of group in a team competition		
DT_RANKING	Event Final ranking	X	
DT_STATS	Statistics table		

DT_MEDALLISTS	Medallists of one event	X	
DT_MEDALLISTS_DISCIPLINE	Medallists by discipline	X	
DT_RECORD	Records		
DT_COMMUNICATION	Official Communication	X	
DT_BRACKETS	Brackets		
DT_GM	Discipline/venue good morning	X	
DT_GN	Discipline/venue good night	X	
DT_FED_RANKING	Federation Ranking		
DT_CONFIG	Discipline configuration	X	X
DT_WEATHER	Event Unit Weather conditions	X	X
DT_SERIAL	List of Current PiT Serial	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 Cycling Road are:

- 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 Cycling Road, as well as the attributes that have an extended definition.

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

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

Element: EventEntry			
Type	Code	Value	Description
E_ENTRY	E_SUBSTITUTE	S(1)	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Send "Y" if the competitor is a substitute or N if it is not more.

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

Type /Code	Description	Expected
E_ENTRY /E_SUBSTITUTE	Flag that indicates the competitor is a substitute.	As soon as this information is (this

		information can be sent in both messages and only for Road Race Event)
--	--	--

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 Cycling Road are:

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

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 Cycling Road, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Start	StartOrder	O	Numeric	The group number. This value will be display only for Individual time trial.
	SortOrder	M	Numeric	
Start /Competitor /Composition /Athlete	Code	M	S(20) with no leading zeroes	Athlete ID
	Bib	O	String	The athlete's race number

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

Element: UnitInfo			
Type	Code	Value	Description
UI_STARTLIST	CR_COMMUNIQUE	String	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Send the communiqué number.
UI_ST	CR_ENTRIES	Number	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Send the number of entries.
	CR_NOCS	Number	For @Type: Send proposed type
For @Code: Send proposed code			

			For @Value: Send the number of NOCs
--	--	--	--

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

Type /Code	Description	Expected
UI_STARTLIST /CR_COMMUNIQUE	Communiqué number for the start list	When was available
UI_ST /CR_ENTRIES UI_ST /CR_NOCS	The numbers of entries and NOCs for the statistics	When was available

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

Element: Competitor /Start /Competitor /Composition /Athlete /EventUnitEntry			
Type	Code	Value	Description
EUE_TIME	CR_STIME	HH:MM:SS 99:99:90	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Send the Start time for the competitor
EUE_CR	CR_IRM	CC @IRM	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Indicator as supplied by OVR for DNS or other possible results before the race.

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

Type /Code	Description	Expected
EUE_TIME /CR_STIME	Start time	Always, for Time Trial event units
EUE_CR /CR_IRM	Invalid result mark supplied by OVR before the race.	As soon as this information is 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

- For the Road Race event:
 - For intermediate results:
 - After the group including the 15th competitor of each lap
 - Partial Results:
 - After the group including the 15th competitor
 - Official results:
 - After the results for race are approved
- For the Time Trial event:
 - For intermediate results:
 - After each group finished.
 - Official results:
 - After the results for race are approved

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 Cycling Road are:

- UnitDateTime
- UnitInfo
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions /Extension

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.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	String	Rank of the competitor in the corresponding event unit. This attribute is optional.
	RankEqual	O	Y	Y in the case of equalled rank
	ResultType	O	CC @ResultType	Result type. (see codes section)

Element	Attribute	M/O	Value	Comments
	IRM	O	CC @IRM	IRM for the particular event unit. Only if the results are approved. Send just in the case @ResultType is IRM (see codes section)
	Result	O	Road Race: HH:MM:SS 99:90:00 Time trial: H:MM:SS.tt 99:90:00.00	Result for the particular event unit.
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular event unit.

Send UnitDateTime including also the @EndDate attribute

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

Element: UnitInfo					
Type	Code	Extension Code	Pos	Value	Description
UI_RESULTS	CR_COMMUNIQUE		N(1) 0	String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send 1 for final result Send 2 for race analysis For @Value: Send the communiqué number.
	CR_AFTER			String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything. For @Value: Send sections who just to past until know. Example: PTP Start, Finish Only for Road Race
UI_ST	CR_FINISHED			Number	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything. For @Value: Send number of riders who finish the race.
	CR_y Where y=CC@IRM			Number	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything. For @Value: Send number of riders who have IRM. For CR_DNF only take account of riders who abandoned the race.
	CR_DNF_T			Number	For @Type: Send proposed type For @Code:

Element: UnitInfo						
Type	Code	Extension Code	Pos	Value	Description	
					Send proposed code	
					For @Pos: Do not send anything.	
					For @Value: The total number of DNF riders. This should be calculated as Abandoned (@Code =CR_DNF) + Lapped (@Code =CR_LAP)	
UI_LEADER	CR_CURRENT			N(2) 90	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: Do not send anything	
					For @Value: Send the intermediate point was the current leader has most recently passed (Mass start)	
		CR_ID		S(20) with no leading zeroes	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: Do not send anything	
					For @Value: Send the Current Leader ID the intermediate (s)he has most recently passed (Mass start)	
		CR_INTERMEDIATE		N(2) 90	HH:MM:SS 99:90:00	For @Type: Send proposed type
					For @Code: Send proposed code	
					For @Pos: The number that identifies the intermediate result point, from 1 to the total number (n) of intermediate result points. Where n is when finish the race.	
					According to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message	
				For @Value: Leader Time up to that point		
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: Do not send anything	
					For @Value: Leader Average Speed up to that point Average Speeds (from start) Km/h, The Speed from the start to an intermediate	
		CR_LAVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: Do not send anything	

Element: UnitInfo					
Type	Code	Extension Code	Pos	Value	Description
					For @Value: Average Speed (last lap) km/h , the lap speed from leader (start of lap) to leader (end of lap)
	CR_LAP		N(2) 90	HH:MM:SS 99:90:00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the lap, from 1 to the total number (n) of laps. According to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message According to the @pos of the EC_RACE /CR_LAP code at the DT_CONFIG message For @Value: Time for that lap
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Average Speed (from start) in that lap, the lap speed for the leader at the end of the lap
	CR_SECTION		N(2) 90	HH:MM:SS 99:90:00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the section, from 1 to the total number of sections. It is section between each intermediate point. For @Value: Time for that section
		CR_AVGSPEED		N(3).N(2) 990.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Leader Average Speed in that section Send a dash "-" is case of half laps

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

Type /Code	Description	Expected
UI_RESULTS /CR_COMMUNIQUE	The communiqué number.	When was available
CR_AFTER	The race distance completed so far	When was available

		Only for Road Race
UI_ST/CR_FINISHED UI_ST/CR_y Where y = CC @IRM	Number of riders who finish in that moment and the number of riders who have IRM For CR_DNF only take account of riders who abandoned the race.	When was available
UI_ST/CR_DNF_T	The total number of DNF riders. This should be calculated as Abandoned (@Code =CR_DNF) + Lapped (@Code =CR_LAP)	
UI_LEADER /CR_CURRENT	Send the intermediate point where the current leader has most recently passed.	when it is available
CR_CURRENT/CR_ID	Send the ID of the current Leader	
UI_LEADER /CR_INTERMEDIATE	Are points in the race, from 1 to n (finish). The @pos attribute should be according to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message	Road race: when it is available
CR_INTERMEDIATE/ CR_AVGSPEED	"Average Speeds (from start) Km/h", Average speed from the time competitor X crosses the first intermediate (competitor X may be in the lead or not) until the time competitor X (now the leader) crosses the last intermediate point.	Road Race: Only after each Lap
CR_INTERMEDIATE/ CR_LAVGSPEED	"Average Speeds (last lap) Km/h", Average speed from the time the leader at the first intermediate of a lap crosses this point until the time the leader crosses the last intermediate point of the lap.	Road Race: Only after each Lap
UI_LEADER /CR_LAP	Section between two intermediates points. The @pos attribute should be according to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message The @pos attribute should be according to the @pos of the EC_RACE /CR_LAP code at the DT_CONFIG message The @Value attribute is the Lap time.	Road race: when it is available
CR_LAP /CR_AVGSPEED	Average speed from the time competitor X crosses the first intermediate (competitor X may be in the lead or not) of a lap until the time competitor X (now the leader) crosses the last intermediate point of a lap.	
UI_LEADER /CR_SECTION	Section for the PTP	Road race: when it is available

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

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_RESULTS	CR_SPRINTOFF			S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send "Y" for the indication of the sprint-off winner

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
	CR_STATUS			CC@RunStatus	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Race status for that athlete Only for Time trial
	CR_CURRENT			N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Intermediate point was the athlete has most recently passed If the competitor has an IRM: 1. In case the DNS or the athlete has an IRM before he crosses the first intermediate point: send 1. 2. In other cases, send the Intermediate point that he has crossed most recently plus 1.
	CR_INTERMEDIATE CR_LAP CR_SECTION		N(2) 90	<u>Road Race:</u> HH:MM:SS 99:90:00 <u>Time trial:</u> H:MM:SS.tt 99:90:00.00 Only for the final results (last intermediate point)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Section/Lap/Intermediate number where the competition has taken place (1,2..) For @Value: Time after the Lap/intermediate/section. The time its cumulative for intermediate points/sections
	CR_RANK			String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Athlete's rank after the Lap/intermediate point/section
	CR_ERANK			Y	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Y in the case of equalled rank
	CR_DIFF			<u>Road Race:</u> +H:MM:SS +9:90:00 Or 0:00 for leader <u>Time trial:</u> +HH:MM:SS.tt +9:90:00.00 Or	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: The difference time between that competitor and the leader until that

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
				0:00.00 leader	for intermediate point/section.
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: intermediate point/section average speed
		CR_IDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Index based on whole list (with the ones who have not passed yet are indexed as well – after the ones who have finished, but before the IRMs. Sorted by the intermediate passed most recently, and by order there (if none, then by start order)). Overlapped (LAP) riders must be dropped to the bottom but above the DNF/DSQ/DNS riders. For tied athletes, the rider with the lowest bib number is listed first.
		CR_PASSIDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Index based on only the ones who have finished or have an IRM
		CR_LASTFINISH		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send "Y" this attribute for the competitor who has just finished the split or the race.
		CR_OFFICIAL		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send Y when the time becomes official Send N when the time is unofficial. Only for Intermediate points. (Road race only)
	CR_PHOTO			S(1)	For @Type: Send proposed type For @Code: Send proposed code

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					For @Pos: Do not send anything
					For @Value: To know if the competitor's final result was decided by photo. Send Y for Evaluated Status Send P for Pending Status.

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

Type /Code	Description	Expected
ER_RESULTS /CR_SPRINTOFF	Indication of the sprint-off winner	If it is necessary
ER_RESULTS /CR_STATUS	For know the status of the athlete's race.	Time trial: Always
ER_RESULTS /CR_CURRENT	Send for the athlete who has just finished the intermediate point or the race. If the competitor has an IRM: 1. In case the DNS or the athlete has an IRM before he crosses the first intermediate point: send 1. 2. In other cases, send the Intermediate point that he has crossed most recently plus 1.	Always
ER_RESULTS /CR_INTERMEDIATE	It's the intermediate point where the competitor has taken place (Time, Rank, Avr. Speed, Difference time).	Always
ER_RESULTS /CR_LAP	Section between two intermediates points (Time, Rank).	Always
ER_RESULTS /CR_SECTION	Section between two intermediates for PTP where the competitor has taken place (Time, Rank, diff. Avr. speed)	Only for road race
CR_IDX	Index based on whole list (with the ones who have not passed yet are indexed as well – after the ones who have finished, but before the IRMs. Sorted by the intermediate passed most recently and by order there (if none, then by start order)).	Always
CR_PASSIDX	Index based on only the ones who have finished or have an IRM	when it is available
CR_LASTFINISH	This attribute for the competitor who has just finished the split or the race.	If applies.
CR_INTERMEDIATE/CR_OFFICIAL	Use for show if the results are official. If the results are not official they should be in italics.	Road race: Always
ER_RESULTS /CR_PHOTO	It is an attribute for know if it is necessary made a photo for this competitor.	Road Race: At the end of the race. Only send for competitor who needs that.

4.1.3.6 Message sort

Please, follow the general definition.

4.1.4 Official Communication

4.1.4.1 Description

This message is the Official Communication 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).

In case of Race Incidents send @DocumentSubcode with "RINCIDENT" and @DocumentSubcode always with "1".

4.1.4.3 Trigger and Frequency

- After each incident

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 Cycling Road are:

- JuryDecision (following the general rules for this element)
- RIncidents (following the general rules for this element and Send only for the race incidents)

4.1.4.5 Message Values

Please, follow the general definition.

4.1.4.6 Message sort

Please, follow the general definition.

4.1.5 Discipline Configuration

4.1.5.1 Description

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

4.1.5.2 Header Values

Please, follow the general definition.

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 Cycling Road are:

- ExtendedConfigItem

4.1.5.5 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 Cycling Road, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Config	Gender	M	CC @Gender Or "0"	
	Event	M	CC @Event	

The following table describes in more detail the ExtendedConfig element.

Element: ExtendedConfig						
Type	Code	ExtendedConfig Item Code	Pos	Value	Description	
EC_RACE (By event)	CR_RDISTANCE			Number	For @Type: Send proposed type	
					For @Code: Send proposed code	
					For @Pos: (see codes section)	
					For @Value: Send the total distance for the race in km.	
		CR_T_LAPS		N(2) 90		For @Type: Send proposed type
						For @Code: Send proposed code
						For @Pos: Do not send anything
		For @Value: Total Lap's numbers in the road race				
		CR_T_SECTION		N(1) 0		For @Type: Send proposed type
For @Code: Send proposed code						
For @Pos: Do not send anything						

Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
					For @Value: Total PTP in the race
		CR_T_INTER		N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Total intermediate points in the race(not including the intermediate 0)
		CR_T_FFTP		N(1) 0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Total PTP -Finish in the race Send if exist a PTP- Start/Finish
	CR_INTERMEDIATE		N(2) 90		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send the number that identifies the intermediate point, from 1 to n. Where n is when finish the race.
					For @Value: Do not send anything.
		CR_DISTANCE		N(3).N(1) 999.0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: (see codes section)
					For @Value: Send distance in km.
		CR_IS_LAST		S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything.
					For @Value: Send "F". Only send for the last intermediate point (when finish the race).
	CR_LAP		N(2) 90		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: The number that identifies the lap, from 1 to the total number of lap.
					For @Value: Do not send anything.
		CR_DISTANCE		N(3).N(1) 999.0	For @Type: Send proposed type
					For @Code: Send proposed code

Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
					For @Pos: (see codes section)
					For @Value: Lap's distance in km.
		CR_START		N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when start the lap.
		CR_FINISH		N(2) 90 Or S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when finish the lap. For lap n, send "F", where n is the point in the race.
	CR_SECTION		N(1) 0		For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Send the number that identifies the PTP section.
					For @Value: Do not send anything.
		CR_DISTANCE		N(3).N(1) 999.0	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: (see codes section)
					For @Value: PTP's distance in km.
		CR_START		N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when start the PTP.
		CR_FINISH		N(2) 90 Or S(1)	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point when finish the PTP. For lap n, send "F", where n is the point in the race.
EC_QUOTA	CC @Organisation			N(4)	For @Type:

Element: ExtendedConfig					
Type	Code	ExtendedConfig Item Code	Pos	Value	Description
				0	Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the quota per NOC for that event

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

Type /Code	Description	Expected
EC_RACE /CR_RDISTANCE	Race description(total race distance, total number of Laps, PTP finish, Section(PTP-Start) and intermediate points)	when it is available
EC_RACE /CR_INTERMEDIATE	<p>Are points in the race where taken results, from 0 to n. Where 0 is when start the race (at this point does not send results only to have a reference of where to start) and n is when finish the race. The PTP-Start/Finish are considerate an intermediate point.</p> <p>Example: If the race has: 1 PTP-Start+ 2 Lap + 1 PTP-Finish</p> <p>Race description: the description should be like bellow: _T_SECTION=1 _T_LAPS=2 _T_FPTP=1</p> <p>To know the distances _SECTION=1 @Value _LAP=1 @Value _LAP=2 @Value _LAP=3 @Value, for PTP-finish</p> <p>Results'Points-Road Race: We will need to know the times in all that points: _T_INTER=4 _INTERMEDIATE = 1,2,3 0 when start the race, but this will not be sent. 1 after the PTP-Start 2,3 after each lap 4 after the PTP-finish (at the end of the race), in this case send a "_IS_LAST" with "F". _SECTION =1, _START = 0, _FINISH = 1 (This is the PTP-Start) _LAP = 1, _START = 1, _FINISH = 2 _LAP = 2, _START = 2, _FINISH = 3 _LAP = 3, _START = 3, _FINISH = 4 (This is the PTP-Finish)</p> <p>Results'Points-Time Trial: We will need to know the times in differents points: _T_INTER=4 _INTERMEDIATE = 1,2,3 0 when start the race, but this will not be sent. 1 after the 1st pt 2 after the 2nd pt 3 after the 3rd pt 4 at the end of the race, in this case send a "_IS_LAST" with</p>	when it is available

	<p>"F".</p> <p>_LAP = 1, _START = 0, _FINISH = 1 _LAP = 2, _START = 1, _FINISH = 2 _LAP = 3, _START = 2, _FINISH = 3 _LAP = 4, _START = 3, _FINISH = 4</p>	
EC_RACE /CR_LAP	<p>Are section between two intermediate points (not including the PTP), from 1 and n. Where n is the final point for that section.</p> <p>The lap 1 should be not include data from the PTP.</p> <p>Example – Road race: If don't exists PTP: The 1 lap start in 0 and finish in 1. If exist 1 PTP -start: The 1 lap start in 1 and finish in 2.</p> <p>Example – Time trial: The 1 lap starts in 0 and finish in 1.</p>	when it is available
CR_LAP/CR_START CR_LAP/CR_FINISH	<p>To know in which intermediate points start or finish that section.</p> <p>Example – Road Race: If the race has: 1 PTP-Start+ 2 Lap + 1 PTP-Finish The _LAP@pos=1 starts in the intermediate point "1" and finish in the "2". The _LAP@pos=2 starts in the intermediate point "2" and finish in the "3". The _LAP@pos=3 starts in the intermediate point "3" and finish in the "4".</p> <p>Example – Time trial: If the race has: 3 points for take the times The _LAP@pos=1 starts in the intermediate point "0" and finish in the "1". The _LAP@pos=2 starts in the intermediate point "1" and finish in the "2". The _LAP@pos=3 starts in the intermediate point "2" and finish in the "3".</p>	when it is available
EC_RACE /CR_SECTION	<p>Are sections for the PTP-Start in the race.</p> <p>Example: If the race has: 1 PTP-Start+ 2 Lap + 1 PTP-Finish _SECTION@pos=1</p>	when it is available
CR_SECTION /CR_START CR_SECTION /CR_FINISH	<p>To know in which intermediate points start or finish that section.</p> <p>Road Race - Example: If the race has: 1 PTP-Start+ 2 Lap + 1 PTP-Finish The _SECTION@pos=1 start in the intermediate point 0 and finish in 1.</p>	when it is available Only for Road Race
EC_QUOTA /CC@Organisation	Number of quotas per NOC by event	when it is available

4.1.5.6 Message sort

Please, follow the general definition.

4.1.6 Event Unit Weather Conditions

4.1.6.1 Description

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

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 Cycling Road are:

- Competition /Weather /Conditions /Condition (following the general rules for this element)

4.1.6.5 Message Values

The following table lists the Event Unit Weather Conditions 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
Conditions	Code	M	GL	GL for generically, because this information will only be measured once.
	Humidity	M	N(3) 990	Humidity in %
Competition /Weather /Conditions /Condition	Code	M	SKY	Weather condition type
	Value	M	CC @WeatherCondit ion	Codes that describe the weather
Competition /Weather /Conditions /Temperature	Code	M	AIR	Air
	Unit	M	CC @TemperatureU nit	Metric system unit for temperature
	Type	M	CC @TemperatureT ype	Type of @Code
	Value	M	N(2) 90	Temperature of the @Code

4.1.6.6 Message sort

Please, follow the general definition.

5 Real time

The following chapter describes the ODF-RT part of Cycling Road.

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 Cycling Road 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
DT_RT_RESULT	RT Event Unit Results	X	X
DT_RT_CUMULATIVE_RESULT	RT Cumulative Results		
DT_RT_CLOCK	RT Clock		
DT_RT_GM	RT Discipline/Venue good morning	X	
DT_RT_GN	RT Discipline/venue good night	X	
DT_RT_KA	RT Discipline/venue keep alive	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 when status changes.
 - T2: Trigger when an athlete passes by the intermediate point.
 - T3: Trigger when leader reach an intermediate point.
 - T4: Trigger during the race if the Status is required.
 - T5: Trigger throughout the race.
 - T6: Trigger after each competitor finishes.
- ResultStatus="LIVE_FULL"
 - This value should be suggested after further testing and sent in the DT_RT_GM message after further testing
 - Suggested to test frequency values around the average time used by the athlete to complete their participation in the course.

for the other ResultStatus, please, 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 Cycling Road are:

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

Please, follow the general considerations for all the different type of messages.

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	String	Rank of the competitor in the corresponding event unit. This attribute is optional because the competitor could get an invalid rank mark.	Road race: T5(Only for those athletes who are at the same split as the leader), T1(if applies) Time trial: , T1(if applies), T6
	RankEqual	O	Y or N	Y in the case of equalled rank. N in the case of tie break.	

Element	Attribute	M/O	Value	Comments	LIVE_UPDATE RT trigger expected
	ResultType	O	CC @ResultType	Result type (see codes section)	Road race: T1, T4, T5 Time trial: T4, T6
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM, or both time and IRM (see codes section)	T1, T4
	Result	O	Road Race: HH:MM:SS 99:90:00 Time trial: H:MM:SS.tt 99:90:00.00	Result for the particular event unit.	Road race: T6 Time trial: T6
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular event unit.	T2, T4, T5, T6

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

Element: UnitInfo					
Type	Code	Extension Code	Pos	Value	Description
UI_LEADER	CR_CURRENT			N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the intermediate point was the current leader has most recently passed (Mass start)
	CR_ID			S(20) with no leading zeroes	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Send the Current Leader ID the intermediate (s)he has most recently passed (Mass start)
	CR_INTERMEDIATE			N(2) 90	For @Type: Send proposed type
For @Code: Send proposed code					
For @Pos: The number that identifies the intermediate result point, from 1 to the total number (n) of intermediate result points. Where n is when finish the race.					
According to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message For @Value: Leader Time up to that point					
CR_AVGSPEED			N(3).N(3) 990.000	For @Type: Send proposed type	
				For @Code: Send proposed code	
				For @Pos: Do not send anything	
				For @Value: Leader Average Speed up to that point	

Element: UnitInfo					
Type	Code	Extension Code	Pos	Value	Description
					Average Speeds (from start) Km/h, The Speed from the start to an intermediate
		CR_LAVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Average Speed (last lap) km/h, the lap speed from leader (start of lap) to leader (end of lap)
	CR_LAP		N(2) 90	HH:MM:SS 99:90:00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the lap, from 1 to the total number (n) of laps. According to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message According to the @pos of the EC_RACE /CR_LAP code at the DT_CONFIG message For @Value: Time for that lap
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Average Speed (from start) in that lap, the lap speed for the leader at the end of the lap
	CR_SECTION		N(2) 90	HH:MM:SS 99:90:00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies the section, from 1 to the total number of sections. It is section between each intermediate point. For @Value: Time for that section
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Leader Average Speed in that section Send a dash "-" is case of half laps

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

Type /Code	Description	Expected
UI_LEADER /CR_CURRENT	Send the intermediate point where the current leader has most recently passed	when it is available
UI_LEADER /CR_INTERMEDIATE	Are points in the race, from 1 to n (finish). The @pos attribute should be according to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message	Road race: T3
CR_INTERMEDIATE/CR_AVGSPEED	"Average Speeds (from start) Km/h", Average speed from the time competitor X crosses the first intermediate (competitor X may be in the lead or not) until the time competitor X (now the leader) crosses the last intermediate point.	Road Race: T3
CR_INTERMEDIATE/CR_LAVGSPEED	"Average Speeds (last lap) Km/h", Average speed from the time the leader at the first intermediate of a lap crosses this point until the time the leader crosses the last intermediate point of the lap.	Road Race: T3, but only for those intermediate points (CR_INTERMEDIATE@pos) that match with a Lap.
UI_LEADER /CR_LAP	Section between two intermediates points. The @pos attribute should be according to the @pos of the EC_RACE /CR_INTERMEDIATE code at the DT_CONFIG message The @pos attribute should be according to the @pos of the EC_RACE /CR_LAP code at the DT_CONFIG message The @Value attribute is the Lap time.	Road race: T3, but only for those intermediate points that match with a Lap.
CR_LAP /CR_AVGSPEED	Average speed from the time competitor X crosses the first intermediate (competitor X may be in the lead or not) of a lap until the time competitor X (now the leader) crosses the last intermediate point of a lap.	
UI_LEADER /CR_SECTION	Section for the PTP	Road race: T3, but only for those intermediate points that match with a Lap.

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

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_RESULTS	CR_STATUS			CC @RunStatus	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Race status for that athlete Only for Time trial
	CR_CURRENT			N(2) 90	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Intermediate point was the athlete has most recently passed If the competitor has an IRM: 1. In case the DNS or the athlete has an

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					IRM before he crosses the first intermediate point: send 1. 2. In other cases, send the Intermediate point that he has crossed most recently plus 1.
	CR_INTERMEDIATE CR_LAP CR_SECTION		N(2) 90	<u>Road Race:</u> HH:MM:SS 99:90:00 <u>Time trial:</u> H:MM:SS.tt 99:90:00.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: The number that identifies lap/intermediate/sections, from 1 to the total number for that. For @Value: time after the Lap/intermediate/sections
		CR_RANK		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Rank up to that point
		CR_ERANK		Y or N	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Y in the case of equalled rank. N in the case of tie break.
		CR_DIFF		<u>Road Race:</u> +H:MM:SS +9:90:00 Or 0:00 for leader <u>Time trial:</u> +HH:MM:SS.tt +9:90:00.00 Or 0:00.00 for leader	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Time difference up to that point. Send only for athletes in the split of the leader.
		CR_AVGSPEED		N(3).N(3) 990.000	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Average Speed up to that point(time trial only)
		CR_IDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Index based on whole list (with the ones who have not passed yet are indexed as well – after the ones who have finished, but before the IRMs. Sorted by the intermediate passed most recently,

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
					and by order there (if none, then by start order)). Overlapped (LAP) riders must be dropped to the bottom but above the DNF/DSQ/DNS riders. For tied athletes, the rider with the lowest bib number is listed first.
		CR_PASSIDX		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Index based on only the ones who have finished or have an IRM
		CR_LASTFINISH		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send "Y" this attribute for the competitor who has just finished the split or the race Send "N" if in this moment the competitor has not finished the split or race. In any other case, send an empty value
		CR_OFFICIAL		S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send Y when the time becomes official Send N when the time is unofficial. Only for Intermediate points. (Road race only)
	CR_PHOTO			S(1)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: To know if the competitor's final result was decided by photo. Send Y for Evaluated Status Send P for Pending Status. Send N if Photo has been resolved

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

Type /Code	Description	Expected
ER_RESULTS /CR_STATUS	For know the status of the athlete's race.	Time trial: Always
ER_RESULTS /CR_CURRENT	Send for the athlete who has just finished the intermediate point or the race. If the competitor has an IRM:	Always

	1. In case the DNS or the athlete has an IRM before he crosses the first intermediate point: send 1. 2. In other cases, send the Intermediate point that he has crossed most recently plus 1.	
ER_RESULTS /CR_INTERMEDIATE	Are points in the race where we have the competitor's results (time, rank, difference, avr, speed (only for time trial)).	when it is available
ER_RESULTS /CR_LAP	Section between two intermediate points	when it is available
CR_INTERMEDIATE /CR_RANK CR_INTERMEDIATE /CR_DIFF	Results in that intermediate point	Time trial: T5
CR_IDX	Index based on whole list (with the ones who have not passed yet are indexed as well – after the ones who have finished, but before the IRMs. Sorted by the intermediate passed most recently and by order there (if none, then by start order)).	Always
CR_PASSIDX	Index based on only the ones who have finished or have an IRM	when it is available
CR_LASTFINISH	This attribute for the competitor who has just finished the split or the race.	If applies
ER_RESULTS /CR_SECTION	Section between two points for PTP.	Road Race: when it is available
CR_INTERMEDIATE/ CR_OFFICIAL	Use for show if the results are official. If the results are not official they should be in italics.	Road race: Always
ER_RESULTS /CR_PHOTO	It is an attribute for know if it is necessary made a photo for this competitor.	Road Race: At the end of the race. Only send for competitor who needs that.

5.1.1.6 Message sort

Please, follow the general definition.

6 PDF feed

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

DOCUMENT CONTROL

Version history

Version	Date	Comments
R1 v1.0	15 March 2013	First version SFR
R1 v1.1	12 April 2013	SFA
R1 v1.2	19 April 2013	APP
R1 v1.3	1 August 2013	APP
R1 v1.4	14 November 2013	APP

File reference: ODF/INT124 R1 v1.4 APP (CR)

Change Log

Version	Status	Changes on version
R1 v1.0	SFR	<ul style="list-style-type: none"> First version
R1 v1.1	SFA	<ul style="list-style-type: none"> Submitted for Approval.
R1 v1.2	APP	<ul style="list-style-type: none"> Approved version.
R1 v1.3	APP	<ul style="list-style-type: none"> Defect 95026: RoadRace: Clarification for the "Lap Time" (UI_LEADER\CR_LAP@Value), "Average Speeds (from start) Km/h" (CR_INTERMEDIATE/CR_AVGSPEED), "Average Speeds (last lap) Km/h" (CR_INTERMEDIATE/CR_LAVGSPEED). External Delivery
R1 v1.4	APP	<ul style="list-style-type: none"> Defect 99991: The EC_QUOTA from DT_CONFIG is not needed anymore

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