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OLYMPIC
COMMITTEE

ODF/INT014-R1 v5.2 APP

Olympic Data Feed

ODF Nordic Combined Dictionary

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Technology Department
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DOCUMENT CONTROL

Version history

Version	Date	Comments
1.0	17 June 2008	Submitted for review version
1.1	7 July 2008	Changes according to the changes log
R1 V1.0	14 July 2008	Submitted for approval Changes according to the changes log
R1 V2.0	17 October 2008	Status changed to APP Changes after the WNPA meeting held on October 1-2.
R1 V2.1	10 February 2009	Some minor corrections according to the sport rules
R1 V3.0	8 May 2009	Some minor corrections according to the sport rules
R1 v3.1	18 June 2009	Apply CR 579 (Updates requested after Nordic Combined sport event)
R1 v4.0	8 July 2009	Some minors changes according to the Vancouver integration team review.
R1 v5.0	18 September 2009	CR721 to add messages of Updates for Athletes, officials, teams and added the copyright. and added the copyright
R1 v5.1	6 November 2009	Apply the CR1006 that are some changes in ODF documents after Homologation Test.
R1 v5.2	27 November 2009	Solve some issues detected
		Solve some issues detected

File reference: ODF/INT014-R1 v5.2 APP



Change Log

Version	Status	Changes on version
1.0	SFR	<ul style="list-style-type: none">• First version
1.1	SFA	<ul style="list-style-type: none">• Chapter I.1.5.5. Added new code to start lists for cross country: EU_ENTRY /E_START_BEHIND. Besides, changed format to EU_ENTRY /E_WAVE (to remove hours from the value being sent)
R1 V1.0	APP	<ul style="list-style-type: none">• Versioning changed to Rr Vv1.v2, where r is release, and constant number for the documentation until the end of the Olympic Games, v1 refers to the part 1 of the document and v2 refers to the part 2 of the document• Chapter I.1.6.5. Corrected error. The name of the element being defined in the table is CumulativeResult, as it can be seen in the ODF Sport Messages Interface Document.
R1 V2.0	APP	<ul style="list-style-type: none">• Please, review changes in the messages' generic structure in the ODF Central Messages and ODF Sport Messages Interface documents as well as ODF header redefinition.• Removed part II for other competitions, and renumbered all chapters according to this circumstance.• Added new messages DT_HISTORIC_RECORD, DT_GLOBAL_GM, DT_GLOBAL_GN, DT_GM and DT_GN in table of chapter 4 Applicable Messages. Extended DT_GM and DT_GN messages to redefine ODF header DocumentCode attribute.• The attribute RSC in the ODF header has been renamed as DocumentCode according to the new ODF header definition
Other changes		
<ul style="list-style-type: none">• Chapter 5.2 Start list. Added E_WAVE also for teams• Chapter 5.3: Removed NC_DIFF attribute since it does not make sense at event unit level (e.g. 2nd round alone). Left in messages cumulative results and event final ranking.• Chapters 5.4 and 5.5 cumulative results and event final ranking: Added the comment that the code NC_DIFF is sent if scored rounds. Besides, for ski jumping is only up to seconds (no subseconds)		
R1 V2.1	APP	<ul style="list-style-type: none">• Add the element Official with his child elements in the Chapter 5.2.5
R1 V3.0	APP	<ul style="list-style-type: none">• Add a new code NC_RULE that describe the Rule of Disqualification of one athlete in the DT_RESULT/DT_CUMULATIVE_RESULT message.• Add a comment for the attribute StartOrder in the DT_START_LIST message, because the StartOrder depends on the Sports Rules.
R1 v3.1	APP	<ul style="list-style-type: none">• Add a new code RT_DISTANCE, in section 3 for CC @ResultType for a different type of results.• Add two new codes for the length and the altitude in the Start List message.• Add the Rank Value Attribute in the Event Unit Result Message.• Correct For the Element: Competitor /Composition /Athlete /Extended Results /Extended Result, for the Type: ER_NC, the Code NC_NTERMEDIATE_RESULT_RANK is missing the "I" in intermediate; it should be NC_INTERMEDIATE_RESULT_RANK.
R1 v4.0	APP	<ul style="list-style-type: none">• Add three new messages for update Athletes, Officials and Teams data.• Add the copyright.
R1 v5.0	APP	<ul style="list-style-type: none">• Add a new CC@IRM in the Codes Section.



Change Log

Version	Status	Changes on version
		<ul style="list-style-type: none">• Put as a mandatory the attribute Bib for Start /Competitor /Composition/Athlete in the Start List message.• Change the format to S(2) for the Officials/Official/ExtOfficial @NC_POSITION code in the Start List message.• Add a new code for Team member's IRM, another for the Rule, four more about rank and gate for the Training and Trial events and clarify the comments in attribute Result in the Result message.• Add the attribute Bib in the Results and Final Ranking messages for the Result/Competitor and Result/Competitor/Composition/Athlete elements.• Clarify in the expected column the code NC_FF for the Results message.• Add the missing code NC_DIFF in the Competitor /ExtendedResults /ExtendedResult and Competitor /Composition /Athlete /ExtendedResults /ExtendedResult elements for the Results message.• Change the requirement and comments for the attribute Order of the Official element in the Start List.
R1 v5.1	APP	<ul style="list-style-type: none">• Change the comment for the @Value attributes in the elements Athlete/ExtendedResults/ExtendedResult Codes NC_INTERMEDIATE_RESULT_TIME in the Event Unit Result message.
R1 v5.2	APP	<ul style="list-style-type: none">• Clarify the comments in the ResultType for the Cumulative Result message.• Add the clarification for the elements ResultItems /ResultItem and ResultItems /ResultItem/Result in the Cumulative Result message.• Correct a typo in the attribute ResultType for the Event Final Rnking message.



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1. Introduction

1.1. This document

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

1.2. Objective

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

1.3. Main Audience

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

1.4. Glossary

The following abbreviations are used in this document

- **IF** – International Federation
- **IOC** – International Olympic Committee
- **NOC** – National Olympic Committee
- **ODF** – Olympic Data Feed
- **RSC** – Results System Codes
- **CC** – Cross Country
- **NC** – Nordic Combined
- **SJ** – Ski Jumping
- **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/INT002	IDS-Global Interface Description Document	This document describes the outmost tag of all documents flowing through IDS. Any message being described in this document will have to follow the general definitions of the IDS-Global Interface Description Document. However, some restrictions to the outmost tag (message header) may be done in this specific interface document.
ODF/COD001	ODF Common Codes Document	This document describes the ODF codes used across the rest of the ODF documents
ODF/INT003	ODF Central Messages Interface Document	This document describes the ODF central messages
ODF/INT004	ODF Sport Messages Interface Document	This document describes the ODF sport messages, generated independently by each sport



2. Overall Perspective

2.1. Objective

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

2.2. End to End data flow

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

In the following sections, for each ODF sport message it will be explained in further detail those elements, attributes, codes, IDS header and 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 Nordic Combined.

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



3. Codes

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

CC @CodeEntity

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

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

Code Entity	Code Entity Set of Values	
CC @IRM (The codes order provided is according to the sport rules. In case of several IRM of the same code, sort by start numbers in ascending order).	Code	Description
	LAP	Lapped
	IRF	In-Run Fall
	DSQ	Disqualified
	DNF	Did not finish
	DNS	Did not start
CC @ResultType	Code	Description
	RT_DISTANCE	Distance (in case of ski jumping training or Trial with valid results but no rank and no points)
	RT_INVALID_RESULT	Invalid Result Mark
	RT_POINTS	Points (for the ski jumping part of the competition)
	RT_TIME	Time (for the cross country part of the competition)



4. Applicable Messages

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

- The column “Message type” indicates the DocumentType that identifies a message
- The column “Message name” is the message name identified by the message type
- The column “Message documented” indicates the document where you should go to have the general definition for a particular Message type
- The column “Message used in this sport” indicates whether a message is used in particular for this sport or not. If it is not ticked (X), then the message should not be used for this sport.

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

Message Type	Message name	Message documented	Message used in this sport	Message extended in this document
DT_SCHEDULE	Competition schedule	Central	X	
DT_SCHEDULE_UPDATE	Competition schedule update	Central	X	
DT_ORGANISATIONS	Organisations	Central	Global	
DT_PARTIC_ATHLETES	List of athletes by discipline	Central	X	
DT_PARTIC_ATH_UPDATE	List of athletes by discipline update	Central	X	
DT_PARTIC_OFFICIALS	List of officials	Central	X	
DT_PARTIC_OFF_UPDATE	List of officials update	Central	X	
DT_PARTIC_TEAMS	List of teams	Central	X	
DT_PARTIC_TEA_UPDATE	List of teams update	Central	X	
DT_PARTIC_HISTORIC	List of historical athletes	Central		
DT_TEAM_HISTORIC	List of historical teams	Central		
DT_PARTIC_HORSES	List of equestrian horses	Central		
DT_MEDALS	Medal standings	Central	Global	
DT_MEDALLISTS_DAY	Medallists of the day	Central	Global	
DT_HISTORIC_RECORD	Historical records	Central		
DT_GLOBAL_GM	Global good morning	Central	Global	
DT_GLOBAL_GN	Global good night	Central	Global	



DT_MEDALLISTS_DISCIPLINE	Medallists by discipline	Sports	X	
DT_START_LIST	Start List	Sports	X	X
DT_RESULT	Event Unit Results	Sports	X	X
DT_PHASE_RESULT	Phase Results	Sports		
DT_CUMULATIVE_RESULT	Cumulative Results	Sports	X	X
DT_POOL_STANDING	Pool Standings of group in a team competition	Sports		
DT_RANKING	Event Final ranking	Sports	X	X
DT_STATS	Statistics table	Sports		
DT_MEDALLISTS	Medallists of one event	Sports	X	X
DT_RECORD	Records	Sports		
DT_COMMUNICATION	Official Communication	Sports	X	
DT_BRACKETS	Brackets	Sports		
DT_GM	Discipline/venue good morning	Sports	X	X
DT_GN	Discipline/venue good night	Sports	X	X
DT_FED_RANKING	Federation Ranking	Sports		
DT_UNITCONFIG	Event Unit Configuration	Sports		



5. Nordic Combined Data Extension

5.1. General Issues

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

5.1.1. IDS and ODF header

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

- IDS Header: RSC

The RSC attribute usually has the DDGEEPUU format, where DD is the Discipline attribute, G is the Gender attribute, EEE is the Event attribute, P is the Phase attribute and UU is the Unit attribute in the IDS header. The concatenation of these attributes –Discipline, Gender, Event, Phase and Unit– will be implicitly defined when defining the RSC attribute in each case. However, just the RSC attribute will be defined in order to avoid redundant definition.

- ODF Header: DocumentCode.

5.1.2. Attributes Definition

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



5.2. Start List

5.2.1. Description

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

5.2.2. Header Values

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

5.2.3. Trigger and Frequency

Please, follow the general definition.

5.2.4. Message Structure

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

- UnitInfo
- UnitDateTime (following the general rules for this element)
- Competitor /EventUnitEntry
- Competitor /Composition /Athlete /EventUnitEntry
- Officials/Official
- Officials/Official/ExtOfficial

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

5.2.5. Message Values

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

Element	Attribute	M/O	Value	Comments
Start	StartOrder	M	Numeric	Competitor's (either single athlete or team) start order according to the Sport Rules in each event. In the case of team competitor, start order of the team. The team members will have the order within the team in their respective Competitor /Composition /Athlete elements (@Order attribute).
	SortOrder	M	Numeric	Same as @StartOrder
Start /Competitor	Bib	O	N(3) 990	Team bib number to be sent mandatory in all the team event units



Element	Attribute	M/O	Value	Comments
Start /Competitor /Composition /Athlete	Bib	M	N(3) 990	Skier bib number.
	Order	M	Numeric	In the case of team, it will be 1, 2, 3, 4 according to order of the team member
Official	Function	M	CC@Func tions	Send the function code
	Order	M	Numeric	Order of the Officials following the Sports Rule

The following table describes in more detail the UnitInfo element.

Element: UnitInfo			
Type	Code	Value	Description
UI_NC	NC_COURSE_NAME	String	For @Type: Send proposed type
			For @Code: Send proposed code for course name
			For @Value: Course name
	NC_HEIGHT_DIFF	N(4) 9990	For @Type: Send proposed type
			For @Code: Send proposed code for height difference in meters
			For @Value: Height difference in meters
	NC_MAX_CLIMB	N(4) 9990	For @Type: Send proposed type
			For @Code: Send proposed code for maximum climb in meters
			For @Value: Maximum climb in meters
	NC_TOT_CLIMB	N(4) 9990	For @Type: Send proposed type
			For @Code: Send proposed code for total climb in meters
			For @Value: Total climb in meters
	NC_LENGTH_LAP	N(5) 99990	For @Type: Send proposed type
			For @Code: Send proposed code for length of lap in meters
			For @Value: Length of lap in meters
	NC_NUMBER_LAPS	N(3) 990	For @Type: Send proposed type
			For @Code: Send proposed code for number of laps
			For @Value: Number of laps
	NC_HILL_SIZE	N(3) 999	For @Type: Send proposed type
			For @Code:



			Send proposed code
			For @Value: Hill size in meters
NC_K_POINT	N(3) 999		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: K-point in meters
NC_METER_VALUE	N(2).N(1) 90.0		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Points / m
NC_SECONDS_POINT	N(3) 990		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Seconds per point
NC_POINTS_MINUTE	N(3) 990		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Points per minute
NC_LENGTH	N(4) 9990		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Length of course in meters
NC_ALTITUDE	N(4) 9990		For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Altitude in meters

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

Type /Code	Description	Expected
UI_NC /NC_COURSE_NAME	Course name	Always for cross country event units
UI_NC /NC_HEIGHT_DIFF	Height difference in meters	Always for cross country event units
UI_NC /NC_MAX_CLIMB	Maximum climb in meters	Always for cross country event units
UI_NC /NC_TOT_CLIMB	Total climb in meters	Always for cross country event units
UI_NC /NC_LENGTH_LAP	Length of laps in meters	Always for cross country event units
UI_NC /NC_NUMBER_LAPS	Number of laps	Always for cross country event units
UI_NC /NC_HILL_SIZE	Hill size in meters	Always for ski jumping event units
UI_NC /NC_K_POINT	K-point in meters	Always for ski jumping event units



UI_NC /NC_METER_VALUE	Points / m	Always for ski jumping event units
UI_NC /NC_SECONDS_POINT	Seconds per point	Always for ski jumping event units
UI_NC /NC_POINTS_MINUTE	Points per minute	Always for ski jumping event units
UI_NC / NC_LENGTH	Length of course in meters	Always for cross country event units
UI_NC / NC_ALTITUDE	Altitude in meters	Always for cross country event units

The following table describes in more detail the ExtOfficial element in the case of Nordic Combined.

Element: Officials/Official/ExtOfficial			
Type	Code	Value	Description
EO_NC	NC_POSITION	S(2)	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Position of the Judge, i.e. A, B, C, SC,...

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

Type /Code	Description	Expected
EO_NC/ NC_POSITION	Position of the Judge	Always

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

Element: Competitor /EventUnitEntry			
Type	Code	Value	Description
EU_ENTRY	E_LANE	N(3) 990	For @Type: Send proposed type
			For @Code: Send proposed code for start row
			For @Value: Lane number
EU_ENTRY	E_WAVE	MM:SS 90:00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Wave start, where MM=minutes and SS=seconds

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

Type /Code	Description	Expected
EU_ENTRY /E_LANE	Lane number	It must be sent in the case of the cross country team event units
EU_ENTRY /E_WAVE	Wave start	Send just if wave start in cross country team event units



The following table describes in more detail the Competitor /Composition /Athlete /EventUnitEntry element in the case of Nordic Combined.

Element: Competitor /Composition /Athlete /EventUnitEntry			
Type	Code	Value	Description
EU_ENTRY	E_WAVE	MM:SS 90:00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Wave start, where MM=minutes and SS=seconds
	E_LANE	Numeric	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Start row
	E_START_BEHIND	MM:SS 90:00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Start behind for the competitor, where MM=minutes and SS=seconds

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

Type /Code	Description	Expected
EU_ENTRY /E_WAVE	Wave start	Send just if wave start in cross country individual event units
EU_ENTRY /E_LANE	Lane number	It must be sent in the case of the cross country individual event units
EU_ENTRY /E_START_BEHIND	Start behind time	Always, in the case of cross country start lists

5.2.6. Message sort

Please, follow the general definition.



5.3. Event Unit Results

5.3.1. Description

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

5.3.2. Header Values

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

5.3.3. Trigger and Frequency

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

- Once the first competitors arrive in the cross country races (depending on the event), the message will be sent with partial results
 - ResultStatus in the headers will have the value "PARTIAL"
 - The message will be resent with partial results every 10 minutes until the last competitor completes the race.

Then proceed with unofficial and official results, as expected.

5.3.4. Message Structure

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

- UnitDateTime (following the general rules for this element, however being @EndDate mandatory)
- UnitInfo
- Competitor /ExtendedResults /ExtendedResult in the case of team event units
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult in the case of individual event units

5.3.5. Message Values

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

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Numeric	Rank value in the course
	ResultType	M	CC @ResultType	Result type, either Time (cross country units), points or distance (ski jumping units), or IRM for the corresponding event unit



Element	Attribute	M/O	Value	Comments
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is the code including Invalid Rank Mark (see codes section)
	Result	O	HH:MM:SS.t 99:99:90.0 (for the cross country units) Or N(4).N(1) 9990.0 (for the ski jumping units)	Result for the particular event unit. Send just in the case @ResultType is Time (for the cross country units), Points (for the ski jumping units) or Distance (in Training and Trial events in meters) HH is hours MM is minutes, SS is seconds, t is tenth of second
	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/ Competit or	Bib	O	Numeric	Team's bib number, to be sent mandatory just in the case of team event units
Result/ Competit or/ Composit ion/ Athlete	Bib	M	Numeric	Athlete's bib number

Send UnitDateTime including also the @EndDate attribute

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

Element: UnitInfo			
Type	Code	Value	Description
UI_RACE_CONDITIONS	RC_AIR_TEMPERATURE	(-)N(2).N(1) (-)90.0	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Temperature in centigrade degrees (in case of positive temperature, do not send '+').
UI_WEATHER_CONDITIONS	CC @WeatherConditions		For @Type: Send proposed type
			For @Code: Send one of the codes regarding to the weather



			conditions
			For @Value: Do not send anything
UI_SNOW_CONDITIONS	CC @SnowConditions	(-) N(2).N(1) (-)90.0	For @Type: Send proposed type
			For @Code: Send one of the codes regarding to the weather conditions
			For @Value: Snow temperature in centigrade degrees.
			It is optional and will be informed just if known. In this case, the snow condition will arrive in the @Code attribute, while the Snow temperature in the @Value attribute

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

Type /Code	Description	Expected
UI_RACE_CONDITIONS /RC_AIR_TEMPERATURE	Temperature in centigrade degrees	Always
UI_WEATHER_CONDITIONS /CC @WeatherConditions	Weather conditions in the @Code attribute	Always
UI_SNOW_CONDITIONS /CC @SnowConditions	Snow conditions in the @Code attribute, while snow temperature in centigrade degrees in the @Value attribute	Always, if available

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

Element: Competitor /ExtendedResults /ExtendedResult			
Type	Code	Value	Description
ER_NC	NC_DIFF	For Cross Country event units: +HH:MM:SS.t +99:99:90.0 Or "0.0"	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Cumulative results time difference for the whole team (for Result @Rank=1, send "0.0", in the case of cross country event units and "0:00" in the case of ski jumping event units however)
		For Ski Jumping event units: +HH:MM:SS +99:90:00 Or "0:00"	HH is hours MM is minutes, SS is seconds, t is tenth of second (tenth of second just for cross country event units)



	NC_FF		For @Type: Send proposed type
			For @Code: Send proposed code for photo finish
			For @Value: Do not send anything

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Event unit's result time difference (whole team)	Always, just for team event units (if scored round)
ER_NC /NC_FF	Photo finish	Send just in case of photo finish in cross country team event units

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

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Pos	Value	Description	
ER_NC	NC_DIFF		+HH:MM:SS.t +99:99:90.0 Or "0.0"	For @Type: Send proposed type	
				For @Code: Send proposed code	
				For @Pos: Do not send anything	
				For @Value: Cumulative results time difference for the single athlete (for Result @Rank=1, send "0.0", however)	
				HH is hours MM is minutes, SS is seconds, t is tenth of second	
	NC_FF				For @Type: Send proposed type
					For @Code: Send proposed code for photo finish
					For @Pos: Do not send anything
					For @Value: Do not send anything
NC_INTERMEDIATE_RESULT_RANK		Numeric	Numeric	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 of intermediate result points	
				For @Value: Rank at the @Pos intermediate result point for the single athlete, according to NC_INTERMEDIATE_RESULT_TIME	
NC_INTERMEDIATE_RESULT_TIME		Numeric	HH:MM:SS.t 99:99:90.0	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 of	



				intermediate result points For @Value: Cumulative time at the @Pos intermediate result point for the single athlete. HH is hours MM is minutes, SS is seconds, t is tenth of second
NC_INTERMEDIATE_RESULT_DIFF	Numeric	+HH:MM:SS.t +99:99:90.0 Or "0.0"		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 of intermediate result points For @Value: Time difference at the @Pos intermediate result point for the single athlete (send "0.0" if the intermediate result rank for that point is 1) HH is hours MM is minutes, SS is seconds, t is tenth of second
NC_INTERMEDIATE_RESULT_DIST	Numeric	N(2).N(1) 90.0		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 of intermediate result points For @Value: Distance in kilometres with one decimal digit of the intermediate result point (e.g.: 2.6)
NC_LEG_RANK	Numeric	Numeric		For @Type: Send proposed type For @Code: Send proposed code For @ Pos: The number that identifies the leg For @Value: Rank at the @Pos leg for the team member in the leg according to NC_LEG_TIME
NC_LEG_TIME	Numeric	HH:MM:SS.t 99:99:90.0		For @Type: Send proposed type For @Code: Send proposed code For @ Pos: The number that identifies the leg, from 1 to the total number of legs For @Value: Cumulative time after the @Pos leg for the team member in the leg HH is hours MM is minutes, SS is seconds, t is tenth of second
NC_LEG_DIFF	Numeric	+HH:MM:SS.t +99:99:90.0 Or "0.0"		For @Type: Send proposed type For @Code: Send proposed code For @ Pos: The number that identifies the leg, from 1 to the total number of legs For @Value: Time difference after the @Pos leg for the team member in the leg. Send "0.0" if the rank for that leg is 1. HH is hours MM is minutes, SS is seconds, t



				is tenth of second
NC_SECTOR_RANK	Numeric	Numeric		For @Type: Send proposed type
				For @Code: Send proposed code
				For @ Pos: The number that identifies the sector, from 1 to the total number of sectors
				For @Value: Rank at the @Pos sector according to NC_SECTOR_TIME. It will be for single athlete, or team member in the case of team
NC_SECTOR_TIME	Numeric	HH:MM:SS.t 99:99:90.0		For @Type: Send proposed type
				For @Code: Send proposed code
				For @ Pos: The number that identifies the sector, from 1 to the total number of sectors
				For @Value: Time for the Pos sector. It is not cumulative. It will be for single athlete, or team member in the case of team
				HH is hours MM is minutes, SS is seconds, t is tenth of second
NC_SECTOR_RESULT_DIFF	Numeric	+HH:MM:SS.t +99:99:90.0		For @Type: Send proposed type
		Or		For @Code: Send proposed code
		"0.0"		For @ Pos: The number that identifies the sector, from 1 to the total number of sectors
				For @Value: Time difference at the @Pos sector (send 0.0 if NC_SECTOR_RANK=1), according to NC_SECTOR_TIME. It will be for single athlete, or team member in the case of team
				HH is hours MM is minutes, SS is seconds, t is tenth of second
NC_SECTOR_RESULT_DIST	Numeric	N(2).N(1) 90.0		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 of intermediate result points
				For @Value: Distance in kilometres with one decimal digit of the intermediate result point (e.g.: 2.6)
NC_LENGTH		N(4).N(1) 9990.0		For @Type: Send proposed type
				For @Code: Send proposed code
				For Pos: Do not send anything
				For @Value: Send jump length in meters, with one decimal digit
NC_LENGTH_POINTS		N(4).N(1) 9990.0		For @Type: Send proposed type
				For @Code: Send proposed code
				For Pos: Do not send anything



				For @Value: Send points for length, with one decimal digit
NC_SPEED		N(4).N(1) 9990.0	For @Type: Send proposed type	For @Code: Send proposed code
			For Pos: Do not send anything	For @Value: Speed in km/h, with one decimal digit
NC_JUMP_POINTS		N(4).N(1) 9990.0	For @Type: Send proposed type	For @Code: Send proposed code
			For Pos: Do not send anything	For @Value: Send points for jump, with one decimal digit
NC_JUDGE	Numeric	N(2).N(1) 90.0	For @Type: Send proposed type	For @Code: Send proposed code
			For Pos: Send judge number from 1 to 5	For @Value: Send points from the judge identified by @Pos, with one decimal digit
NC_JUDGES		N(2).N(1) 90.0	For @Type: Send proposed type	For @Code: Send proposed code
			For Pos: Do not send anything	For @Value: Send total points from judges, with one decimal digit
NC_RULE		Text	For @Type: Send proposed type	For @Code: Send proposed code
			For @ Pos: Do not send anything	For @Value: Rule Number
NC_RULE_TEXT		Text	For @Type: Send proposed type	For @Code: Send proposed code
			For @ Pos: Do not send anything	For @Value: Rule text
NC_IND_IRM		CC@IRM	For @Type: Send proposed type	For @Code: Send proposed code
			For @ Pos: Do not send anything	For @Value: IRM of the Team member (individual IRM in a Team event)
NC_GATE		S(6)	For @Type: Send proposed type	For @Code:



				Send proposed code
				For @ Pos: Do not send anything
				For @Value: Start Gate position
	NC_RANK_SPEED		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @ Pos: Do not send anything
				For @Value: Rank for the speed overall
	NC_RANK_GATE		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @ Pos: Do not send anything
				For @Value: Rank for distance, within all jumpers started from the same gate
	NC_RANK_DISTANCE		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @ Pos: Do not send anything
				For @Value: Rank for the jump distance overall

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Event unit's result time difference (single athlete)	Always, just for individual event units (if scored round)
ER_NC /NC_FF	Photo finish	Send just in case of photo finish in cross country individual event units
ER_NC /NC_INTERMEDIATE_RESULT_RANK	Rank at the intermediate result point	Always in the case of cross country individual event units
ER_NC /NC_INTERMEDIATE_RESULT_TIME	Cumulative time at the intermediate result point	Always in the case of cross country individual event units
ER_NC /NC_INTERMEDIATE_RESULT_DIFF	Time difference at intermediate result point	Always in the case of cross country individual event units
ER_NC /NC_INTERMEDIATE_RESULT_DIST	Distance for the intermediate result point in kilometres	Always in the case of cross country individual event units
ER_NC /NC_LEG_RANK	Rank of the team member for one of the legs	Always just in the case of cross country team event units
ER_NC /NC_LEG_TIME	Cumulative time after the @Pos leg for the team member in the leg	Always just in the case of cross country team event units
ER_NC /NC_LEG_DIFF	Time difference of the team member for one of the legs	Always just in the case of cross country team event units
ER_NC /NC_SECTOR_RANK	Rank at a particular sector (according to sector time). For single athlete if not team event unit, or team member if team event unit.	Always in the case of cross country event units
ER_NC / NC_SECTOR_TIME	Time for a particular sector (not cumulative). For single athlete if not team event unit, or team member if team event unit.	Always in the case of cross country event units
ER_NC / NC_SECTOR_RESULT_DIFF	Time difference in a particular	Always in the case of cross country event units



	sector (not cumulative). For single athlete if not team event unit, or team member if team event unit.	
ER_NC /NC_SECTOR_RESULT_DIST	Distance for the intermediate result point in kilometres	Always (distance in kilometres with one decimal digit)
ER_NC /NC_LENGTH	Jump length in meters	Always in the case of ski jumping event units
ER_NC /NC_LENGTH_POINTS	Points for length	Always in the case of ski jumping event units
ER_NC /NC_SPEED	Speed in km/h	Always in the case of ski jumping event units
ER_NC /NC_JUMP_POINTS	Points for jump	Always in the case of ski jumping event units
ER_NC /NC_JUDGE	Points for a particular judge	Just in competition round in the case of ski jumping event units
ER_NC /NC_JUDGES	Total points from judges	Just in competition round in the case of ski jumping event units
ER_NC/NC_RULE	Rule Text of Disqualification	Just in case of Disqualification
ER_NC/NC_RULE_TEXT	Rule Number of Disqualification	Just in case of Disqualification
ER_NC/NC_IND_IRM	Team Member's IRM	Just in case of one individual has an IRM in a Team Event
ER_NC/NC_GATE	Start Gate position	Always in the Training and Trial events
ER_NC/NC_RANK_SPEED	Rank for the speed overall	Always in the Training and Trial events
ER_NC/NC_RANK_GATE	Rank for distance, within all jumpers started from the same gate	Always in the Training and Trial events
ER_NC/NC_RANK_DISTANCE	Rank for the jump distance overall	Always in the Training and Trial events

5.3.6. Message sort

Please, follow the general definition.



5.4. Cumulative Results

5.4.1. Description

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

5.4.2. Header Values

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

The cumulative results message will be both, after event unit and after phase:

- This cumulative results message is after event unit (Subtype and DocumentSubtype header attributes should be at event unit level) in the case of Team Gundersen or Individual Gundersen (Ski Jumping). However, it does only apply to competition phases.
- This cumulative results message is after phase unit (Subtype and DocumentSubtype header attributes should be at phase level) when each one of the two phases, Ski jumping or cross Country, finish.

5.4.3. Trigger and Frequency

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

- Once the first competitors arrive in the cross country races (depending on the event), the message will be sent with partial results
 - ResultStatus in the headers will have the value "PARTIAL"
 - The message will be resent with partial results every 10 minutes until the last competitor completes the race.

Then proceed with unofficial and official results, as expected.

5.4.4. Message Structure

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

- Competitor /ExtendedResults /ExtendedResult in the case of team competition
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult in the case of individual competition.

5.4.5. Message Values

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



Element	Attribute	M/O	Value	Comments
CumulativeResult	Rank	O	Numeric	Cumulative rank of the competitor after the finalisation of the current event unit (or phase), so it takes into account the previous event units (or phases). This attribute is optional because the skier may have got an invalid rank mark.
	ResultType	M	CC @ResultType	Result type, either points, time or IRM for the corresponding cumulative results
	IRM	O	CC @IRM	IRM after the finalisation of the current event unit (or phase). It will depend on the results of all the event units (or phases) up to the moment of the message sending. Send just in the case @ResultType is IRM (see codes section)
	Result	O	N(4).N(1) 9990.0 For cumulative results at event unit level (ski jumping) Or HH:MM:SS.t 99:99:90.0 For cumulative results at phase level	Result points after the finalisation of the current event unit (or phase). Points with one decimal digit. Send just in the case @ResultType is Points (at event unit level) or Time (at phase level)
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results after the finalisation of the current event unit (or phase), if they were to be presented. It is mostly based on the rank, but it could be used to sort out rank ties as well as results without rank. SortOrder should also take care of IRM rules (please, refer to CC @IRM)
ResultItems /ResultItem	Phase	M	S(1)	Phase code of the latest RSC schedule item
	Unit	O	S(2)	Unit code of the latest RSC schedule item to which the cumulative results is updated to.
ResultItems /ResultItem/Result	Use the same attributes of the element Result than had been defined in the Event unit Result message			

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

Element: Competitor /ExtendedResults /ExtendedResult				
Type	Code	Pos	Value	Description
ER_NC	NC_DIFF		For Cross Country event units:	For @Type: Send proposed type
				For @Code: Send proposed code



			+HH:MM:SS.t +99:99:90.0 Or "0.0"	For @Pos: Do not send anything
			For Jumping event units:	For @Value: Cumulative results time difference for the whole team (for Result @Rank=1, send "0.0", in the case of cross country event units and "0:00" in the case of ski jumping event units however)
			+HH:MM:SS +99:90:00 Or "0:00"	HH is hours MM is minutes, SS is seconds, t is tenth of second (tenth of second just for cross country event units)

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Cumulative result time difference (whole team) for the event unit or phase	Always, just for team competition (if scored round)

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

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult				
Type	Code	Pos	Value	Description
ER_NC	NC_DIFF		+HH:MM:SS.t +99:99:90.0	For @Type: Send proposed type
			Or "0.0"	For @Code: Send proposed code For @Pos: Do not send anything For @Value: Cumulative results time difference for the single athlete (for Result @Rank=1, send "0.0", however) HH is hours MM is minutes, SS is seconds, t is tenth of second
	NC_RULE		Text	For @Type: Send proposed type For @Code: Send proposed code For @ Pos: Do not send anything For @Value: Rule text

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Cumulative result time difference (single athlete) for the event unit of phase	Always, just for individual competition (if scored round)
ER_NC/NC_RULE	Rule of Disqualification	Just in case of Disqualification

5.4.6. Message sort

Please, follow the general definition.



5.5. Event Final Ranking

5.5.1. Description

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

5.5.2. Header Values

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

5.5.3. Trigger and Frequency

The message will be triggered as soon as some ranking positions are definitive (not waiting for the bronze or gold medal games). Please, follow the general definition in this way.

5.5.4. Message Structure

There are not optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Nordic Combined.

5.5.5. Message Values

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

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Numeric	Final rank of the competitor in the corresponding event. This attribute is optional because the competitor could get an invalid rank mark.
	ResultType	M	CC @ResultType	Result type, either time or IRM (or both time+IRM) for the corresponding event.
	IRM	O	CC @IRM	IRM for the particular event Send just in the case @ResultType is IRM, or both time and IRM (see codes section).
	Result	O	HH:MM:SS.t 99:99:90.0	Final result for the particular event Send HH:MM:SS.t just in the case @ResultType is Time, or both Time and IRM (see codes section) HH is hours MM is minutes, SS is seconds, t is tenth of second
	SortOrder	M	Numeric	This attribute is a sequential number with the order of the results for the particular event, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank.



Element	Attribute	M/O	Value	Comments
Result/Competitor	Bib	O	Numeric	Team's bib number, to be sent mandatory just in the case of team event units
Result/Competitor/Composition/Athlete	Bib	M	Numeric	Athlete's bib number

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element (only for team events).

Element: Competitor /ExtendedResults /ExtendedResult			
Type	Code	Value	Description
ER_NC	NC_DIFF	+HH:MM:SS.t +99:99:90.0	For @Type: Send proposed type
		Or	For @Code: Send proposed code
		"0.0"	For @Value: Event's time difference for the whole team (for Result @Rank=1, send "0.0", however) HH is hours MM is minutes, SS is seconds, t is tenth of second

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Event's result time difference (whole team)	Just for team events (if scored round)

The following table describes in more detail the Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element (for individual events).

Type	Code	Value	Description
ER_NC	NC_DIFF	+HH:MM:SS.t +99:99:90.0	For @Type: Send proposed type
		Or	For @Code: Send proposed code
		"0.0"	For @Value: Event's time difference for the single athlete (for Result @Rank=1, send "0.0", however) HH is hours MM is minutes, SS is seconds, t is tenth of second

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

Type /Code	Description	Expected
ER_NC /NC_DIFF	Event's result time difference (single athlete)	Just for individual events (if scored)



		round)
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5.5.6. Message sort

Please, follow the general definition.



5.6. Event's Medallists

5.6.1. Description

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

5.6.2. Header Values

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

5.6.3. Trigger and Frequency

Please, follow the general definition.

5.6.4. Message Structure

Please, follow the general definition.

5.6.5. Message Values

Please, follow the general definition.

5.6.6. Message sort

Please, follow the general definition.



5.7. Discipline/venue good morning

5.7.1. Description

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

5.7.2. Header Values

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

5.7.3. Trigger and Frequency

Please, follow the general definition.

5.7.4. Message Structure

Please, follow the general definition.

5.7.5. Message Values

Please, follow the general definition.

5.7.6. Message sort

Please, follow the general definition.



5.8. Discipline/venue good night

5.8.1. Description

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

5.8.2. Header Values

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

5.8.3. Trigger and Frequency

Please, follow the general definition.

5.8.4. Message Structure

Please, follow the general definition.

5.8.5. Message Values

Please, follow the general definition.

5.8.6. Message sort

Please, follow the general definition.



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