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OLYMPIC
COMMITTEE

ODF/INT105-R1-v1.3 APP

Olympic Data Feed

ODF Nordic Combined Dictionary

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Technology Department
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DOCUMENT CONTROL

Version history

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| 1.0 | 15 July 2011 | Submitted for review version |
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Change Log

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| 1.0 | SFR | <ul style="list-style-type: none">• First version |
| 1.1 | SFA | <ul style="list-style-type: none">• SFA version |
| 1.2 | APP | <ul style="list-style-type: none">• APP Version |
| 1.3 | APP | <ul style="list-style-type: none">• References to DTX_SCHEDULE, DTX_COMMUNICATION, DTX_PARTIC_ATHLETES and DTX_PARTIC_TEAMS removed |

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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 Light Messages Interface Document.

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
- **ODF-RT** – Olympic Data Feed Real Time
- **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/COD101 | ODF Common Codes Document | This document describes the ODF codes used across the rest of the ODF documents |
| ODF/INT100 | ODF Light Messages Interface Document | This document describes the ODF Light messages |



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 Light Messages Interface Document since this ODF Nordic Combined Data Dictionary is a particularization of those documents.

In the following sections, for each ODF Light 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 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) |
| CC @SnowConditions | Defined in ODF Common Codes Document See entity Snow Conditions The entity's attribute to be used is Code | |
| CC @WeatherConditions | Defined in ODF Common Codes Document See entity Weather Conditions The entity's attribute to be used is Code | |



4. Applicable Messages

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

- 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 used in this sport | Message extended in this document |
|-----------------------|-------------------------|----------------------------|-----------------------------------|
| DTX_START_LIST | Start List | X | X |
| DTX_RESULT | Event Unit Results | X | X |
| DTX_CUMULATIVE_RESULT | Cumulative Results | X | X |
| DTX_RANKING | Event Final ranking | X | X |
| DTX_MEDALLISTS | Medallists of one event | X | X |



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 in the ODF Light Messages Interface Document should be respected for the messages described in the chapter 4 of this document.

5.1.1. ODF header

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

ODF Header: DocumentCode.

5.1.2. Attributes Definition

The attributes types are explained in the section “5.1.2. Attributes Definition” of the ODF Light 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 Light Messages Interface Document.

5.2.2. Header Values

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 Light Messages Interface Document that should be included in the case of Nordic Combined are:

- UnitInfo
- UnitDateTime (following the general rules for this element)
- 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 Light 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 (start order according to the Sport Rules in each event. |
| | SortOrder | M | Numeric | Same as @StartOrder |
| Start /Competitor /Composition /Athlete | Bib | M | N(3) 990 | Skier bib number. |
| | Order | M | Numeric | |
| 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) | For @Type: | |



| | | | |
|--|------------------|--------------|-------------------------------------------------------------------------------------------------------------------|
| | | 90.0 | 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 |

| Type /Code | Description | Expected |
|------------|-------------|----------|
|------------|-------------|----------|

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 Light Messages Interface Document.

5.3.2. Header Values

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

5.3.3. 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 Light 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 /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 Light 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 for the particular event unit |
| | 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/ 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 /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 | For @Code: Send proposed code |
| | | | "0.0" | 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_LENGTH | | | N(4).N(1) | For @Type: |



| | | | | |
|--|------------------|---------|---------------------|--------------------------------------------------------------------------------------|
| | | | 9990.0 | 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_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_LENGTH | Jump length in meters | Always in the case of ski jumping event units |
| ER_NC /NC_LENGTH_POINTS | Points for length | Just in competition rounds of sky jumping event units (first round and final round) |
| 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 | Just in competition rounds of sky jumping event units (first round and final round) |
| ER_NC /NC_JUDGE | Points for a particular judge | Just in competition rounds of sky jumping event units (first round and final round) |
| ER_NC /NC_JUDGES | Total points from judges | Just in competition rounds of sky jumping event units (first round and final round) |
| 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_GATE | Start Gate position | Always in the Training and Trial event units of sky jumping event |
| ER_NC/NC_RANK_GATE | Rank for distance, within all jumpers started from the same gate | Always in the Training and Trial event units of sky jumping event |
| ER_NC/NC_RANK_SPEED | Rank for the speed overall | Always in the Training and Trial events |



| | | |
|------------------------|------------------------------------|-------------------------------------------------------------------|
| ER_NC/NC_RANK_DISTANCE | Rank for the jump distance overall | Always in the Training and Trial event units of sky jumping event |
|------------------------|------------------------------------|-------------------------------------------------------------------|

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 Light Messages Interface Document.

5.4.2. Header Values

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

The 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 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 Light Messages Interface Document that should be included in the case of Nordic Combined are:

- 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 Light Messages Interface Document), as well as the attributes that have an extended definition.

| Element | Attribute | M/O | Value | Comments |
|---------|-----------|-----|-------|----------|
|---------|-----------|-----|-------|----------|



| 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) |
| 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 /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 | For @Code: Send proposed code |



| | | | | |
|--|---------|--|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | "0.0" | 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 Light Messages Interface Document.

5.5.2. Header Values

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 Light 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 Light 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/ Composition/ Athlete | Bib | M | Numeric | Athlete's bib number |

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) |

5.5.6. Message sort

Please, follow the general definition.



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