

# Olympic Data Feed



## ODF Biathlon and Cross Country Data Dictionary

Lillehammer 2016 –Winter Youth  
Olympic Games

Technology and Information Department

© International Olympic Committee

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# 1 Introduction

## 1.1 This document

This document includes the ODF Cross Country Data Dictionary. This Data Dictionary refines the messages described in the ODF General Messages Interface Document specifically for Cross Country.

## 1.2 Objective

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

- **BTH** - Biathlon
- **CCS** – Cross Country
- **IF** – International Federation
- **IOC** – International Olympic Committee
- **NOC** – National Olympic Committee
- **ODF** – Olympic Data Feed
- **RSC** – Results System Codes
- **WNPA** – World News Press Agencies

## 1.5 Related Documents

| Document Reference | Document Title                          | Document Description   |
|--------------------|---|--|
| ODF/INT400         | ODF General Principles Document         | The document explains the environment and general principles for ODF.                      |
| ODF/INT401         | ODF General Messages Interface Document | This document describes the ODF General messages   |
| ODF/COD404         | ODF Common Codes Document               | This document describes the ODF codes used across the rest of the ODF documents            |
| ODF/COD405         | ODF Sport Codes                         | This document describes the ODF specific codes used in this sport                          |
| ODF/COD406         | ODF Header Values                       | This document details the header values which shows which RSCs are used in which messages. |

THESE CODES WILL BE MOVED TO THE CODE DATABASE AT A LATER TIME.

## Sport Codes

| Discipline | Code_Entity        | Code       | Order | Description  |
|------------|--------------------|------------|-------|--|
| BTH        | @IRM               | DNF        |       | Did not finish                                     |
| BTH        | @IRM               | DNS        |       | Did not start                                      |
| BTH        | @IRM               | DQB        |       | Disqualified (Behaviour)                           |
| BTH        | @IRM               | DSQ        |       | Disqualified                                       |
| BTH        | @IRM               | LAP        |       | Lapped   |
| BTH        | @MassGroup         | MEDAL      |       | Medal winners                                      |
| BTH        | @MassGroup         | OG_PTS     |       | Qualified by Olympic Games Points                  |
| BTH        | @MassGroup         | OG_PTS_RES |       | Reserve athletes qualified by Olympic Games points |
| BTH        | @MassGroup         | WCP        |       | World Cup Total Score - top 10                     |
| BTH        | @ResultType        | IRM        |       | Invalid Result Mark                                |
| BTH        | @ResultType        | IRM_TIME   |       | For both, time and invalid result mark             |
| BTH        | @ResultType        | TIME       |       | Time   |
| BTH        | @ResultType        | PENALTY    |       | Number of penalties                                |
| CCS        | @Bracket           | FNL        |       | Final  |
| CCS        | @BracketItems      | FNL        |       | Final  |
| CCS        | @BracketItems      | QFNL       |       | Quarterfinal                                       |
| CCS        | @BracketItems      | SFNL       |       | Semifinal  |
| CCS        | @IRM               | DNF        |       | Did not finish                                     |
| CCS        | @IRM               | DNS        |       | Did not start                                      |
| CCS        | @IRM               | DQB        |       | Disqualified (Behaviour)                           |
| CCS        | @IRM               | DSQ        |       | Disqualified                                       |
| CCS        | @IRM               | LAP        |       | Lapped   |
| CCS        | @IRM               | RAL        |       | Ranked as Last                                     |
| CCS        | @QualificationMark | LL         |       | Lucky Loser  |
| CCS        | @QualificationMark | Q          |       | Qualified  |
| CCS        | @ResultPhase       | F          |       | Final  |
| CCS        | @ResultPhase       | FA         |       | Final A  |
| CCS        | @ResultPhase       | FB         |       | Final B  |
| CCS        | @ResultPhase       | Q          |       | Qualification                                      |
| CCS        | @ResultPhase       | QF         |       | Quarterfinal                                       |
| CCS        | @ResultPhase       | SF         |       | Semifinal  |
| CCS        | @ResultPhase       | SF1        |       | Semifinal 1  |
| CCS        | @ResultPhase       | SF2        |       | Semifinal 2  |
| CCS        | @ResultType        | IRM        |       | Invalid Result Mark                                |
| CCS        | @ResultType        | TIME       |       | Time   |
| GEN        | @WeatherPoints     | HIGH       |       | High   |
| GEN        | @WeatherPoints     | LOW        |       | Low  |

## Results Functions (proposed, to be confirmed)

| OG / PG | Discipline | Function Code | Order | Description                      | Category |
|---------|------------|---------------|-------|----------------------------------|----------|
| OG      | BTH        | COMP_CHF      | 4     | Chief of Competition             | J        |
| OG      | BTH        | JUR_ME        |       | Member                           | J        |
| OG      | BTH        | RE            |       | International Referee for Course | J        |
| OG      | BTH        | TCH_DEL       |       | IBU Technical Delegate           | J        |
| OG      | BTH        | TCH_DEL_AST   |       | IBU Assistant Technical Delegate | J        |
| OG      | CCS        | COMP_CHF      | 3     | Chief of Competition             | J        |
| OG      | CCS        | JUR_ME        | 5     | Member                           | J        |
| OG      | CCS        | RCE_DIR_AST   | 2     | FIS Assistant Race Director      | J        |
| OG      | CCS        | TCH_DEL       | 1     | FIS Technical Delegate           | J        |

| OG / PG | Discipline | Function Code | Order | Description                      | Category |
|---------|------------|---------------|-------|----------------------------------|----------|
| OG      | CCS        | TCH_DEL_AST   | 4     | FIS Assistant Technical Delegate | J        |
| PG      | BTH        | COMP_CHF      | 5     | Chief of Competition             | J        |
| PG      | BTH        | JUR_ME        | 4     | IPC Jury Member                  | J        |
| PG      | BTH        | RCE_DIR       | 3     | IPC Race Director                | J        |
| PG      | BTH        | TCH_DEL       | 1     | IPC Technical Delegate           | J        |
| PG      | BTH        | TCH_DEL_AST   | 2     | IPC Assistant Technical Delegate | J        |
| PG      | CCS        | COMP_CHF      | 5     | Chief of Competition             | J        |
| PG      | CCS        | JUR_ME        | 4     | IPC Jury Member                  | J        |
| PG      | CCS        | RCE_DIR       | 3     | IPC Race Director                | J        |
| PG      | CCS        | TCH_DEL       | 1     | IPC Technical Delegate           | J        |
| PG      | CCS        | TCH_DEL_AST   | 2     | IPC Assistant Technical Delegate | J        |

## 2 Messages

### 2.1 Applicable Messages

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

- 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                             | X                          | X                                 |
| DT_PARTIC_TEAMS_UPDATE   | List of Teams Update                      | X                          | X                                 |
| DT_MEDALS                | Medal standings                           | Global                     |                                   |
| DT_MEDALLISTS_DAY        | Medallists of the day                     | Global                     |                                   |
| DT_GLOBAL_GM             | Global good morning                       | Global                     |                                   |
| DT_GLOBAL_GN             | Global good night                         | Global                     |                                   |
| DT_IMAGE                 | Image (for Photofinish)                   | X                          | X                                 |
| DT_PRESSPHOTOFINISH_LK   | Press Photofinish                         | X                          |                                   |
| DT_RESULT                | Event Unit Start List and Results         | X                          | X                                 |
| DT_CURRENT               | Current Information                       | X                          | X                                 |
| DT_RANKING               | Event Final ranking                       | X                          | X                                 |
| DT_MEDALLISTS            | Medallists of one event                   | X                          |                                   |
| DT_MEDALLISTS_DISCIPLINE | Medallists by discipline                  | X                          |                                   |
| DT_COMMUNICATION         | Official Communication                    | X                          |                                   |
| DT_BRACKETS              | Brackets                                  | X                          | X                                 |
| DT_LOCAL_ON              | Discipline/venue start transmission       | X                          |                                   |
| DT_LOCAL_OFF             | Discipline/venue stop transmission        | X                          |                                   |
| DT_CONFIG                | Configuration                             | X                          | X                                 |
| DT_WEATHER               | Event Unit Weather conditions             | X                          | X                                 |
| DT_KA                    | Keep Alive                                | X                          |                                   |

## 2.1.1 List of Participants by Discipline / Update

### 2.1.1.1 Description

This message is the List of participants by discipline (and the update), for that discipline it is the list of athletes and historical athletes, as described in the ODF General Messages Interface Document.

### 2.1.1.2 Header Values

As defined in the header values document.

### 2.1.1.3 Trigger and Frequency

Follow the general definition.

### 2.1.1.4 Message Structure

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

- Competition /Participant/Discipline /RegisteredEvent /EventEntry

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

### 2.1.1.5 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, as well as the attributes that have an extended definition.

| Element                                  | Attribute | M/O | Value     | Comments  |
|--|-----------|-----|-----------|---|
| Participant /Discipline                  | IFld      | O   | S(16)     | Competitor's federation number for the corresponding discipline (include if the discipline assigns international federation codes to athletes). |
| Participant /Discipline /RegisteredEvent | Event     | M   | CC @Event |   |
|  | Bib       | O   | S(5)      | Bib number from OVR<br>Numeric for individuals.<br>##0-0 for team members.  |

### 2.1.1.6 Message sort

Please, follow the general definition.



## 2.1.2 List of Teams / Update

### 2.1.2.1 Description

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

### 2.1.2.2 Header Values

As defined in the header values document.

### 2.1.2.3 Trigger and Frequency

Follow the general definition.

### 2.1.2.4 Message Structure

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

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

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

### 2.1.2.5 Message Values

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

| Element                           | Attribute | M/O | Value                        | Comments  |
|-----------------------------------|-----------|-----|------------------------------|---|
| Team /Composition /Athlete        | Code      | M   | S(20) with no leading zeroes | Athlete ID  |
|                                   | Order     | O   | Numeric 0                    | Team member order   |
| Team /Discipline                  | IFld      | O   | S(16)                        | Competitor's federation number for the corresponding discipline             |
| Team /Discipline /RegisteredEvent | Event     | M   | CC @Event                    |   |
|                                   | Bib       | O   | Numeric ##0                  | Team bib number to be sent in all the team event units (team sprint, relay) |

### 2.1.2.6 Message sort

Please, follow the general definition.

## 2.1.3 Event Unit Start List and Results

### 2.1.3.1 Description

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

### 2.1.3.2 Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values) with one message per race.

### 2.1.3.3 Trigger and Frequency

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

- As soon as the start list is available and any changes [inc. IRMs] (START\_LIST)
- When the unit starts and after every update (intermediates etc.) (LIVE)
- After the race is finished (UNCONFIRMED / UNOFFICIAL / OFFICIAL) as applicable.
- After any change

### 2.1.3.4 Message Structure

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

- ExtendedInfos /UnitDateTime (StartDate)
- ExtendedInfos /ExtendedInfo
- ExtendedInfos /SportDescription
- ExtendedInfos /VenueDescription
- Officials /Official
- Result /ExtendedResults /ExtendedResult
- Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

### 2.1.3.5 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  |
|--|-------------------|-----|---|---|
| ExtendedInfos /SportDescription          | DisciplineName    | M   | S(40)   | Text description from common codes  |
|  | EventName         | M   | S(40)   | Text short description, not code  |
|  | SubEventName      | M   | S(40)   | Text short description of the Event Unit, not code  |
|  | Gender            | M   | CC @DisciplineGender  |   |
| ExtendedInfos /ExtendedInfo /Competitor  | Organisation      | O   | CC @Organisation  | Organisation allocated to the range   |
|  | Order             | O   | Numeric #0  | Order of the organisation at the position   |
| ExtendedInfos /VenueDescription          | Venue             | M   | CC @VenueCode   | Venue Code  |
|  | VenueName         | M   | S(25)   | Text short description, not code  |
|  | Location          | M   | CC @Location  | Location Code   |
|  | LocationName      | M   | S(30)   | Text short description, not code  |
| Officials /Official                      | Code              | M   | S(20) with no leading zeroes                                      | Officials code  |
|  | Function          | M   | CC @ResultsFunction   | Officials Function  |
|  | Order             | O   | Numeric   | Order of officials.   |
| Result                                   | Rank              | O   | String  | Rank of the competitor in the event unit  |
|  | RankEqual         | O   | S(1)  | Send 'Y' if the rank is equalled else do not send.  |
|  | ResultType        | O   | SC @ResultType  | Result type.  |
|  | IRM               | O   | SC @IRM   | IRM for the event unit<br>Send only in the case @ResultType is IRM or IRM_TIME  |
|  | Result            | O   | h:mm:ss.ff<br>or<br>m:ss.f<br>(for sprint events during the unit) | Time for the competitor except in mass start.<br>Do not send hours if not applicable.<br><br>For Sprint Events, result times will be transmitted in tenths of seconds while ResultStatus status is "LIVE". Result times format will change to hundredths of seconds for other statuses.   |
|  | Diff              | O   | m:ss.ff<br>or<br>m:ss.f   | Time behind the leader. Send 0.00 for the leader.   |
|  | QualificationMark | O   | SC<br>@QualificationMark  | Send just in the case the competitor has qualified. (Sprint and Team Sprint)  |
|  | SortOrder         | M   | Numeric #0  | 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. Prior to the unit the order is the same as StartSortOrder.<br>Updated during the race with the current order, |
|  | StartOrder        | O   | Numeric #0  | Start order.  |
|  | StartSortOrder    | M   | Numeric #0  | Unique number for sorting the start list.   |
| Result /Competitor                       | Code              | M   | S(20) with no leading zeroes                                      | Competitor ID   |
|  | Type              | M   | S(1)  | A for athlete, T for Team   |
|  | Bib               | O   | Numeric ##0   | Bib number for the team   |
|  | Organisation      | O   | S(3)  | Organisation ID   |
| Result /Competitor /Composition /Athlete | Code              | M   | S(20) with no leading zeroes                                      | Athlete ID  |
|  | Order             | M   | Numeric   |   |
|  | Bib               | O   | S(5)  | Bib number<br>Numeric for individuals.<br>##0-0 for team members.   |

The following table describes in more detail the ExtendedInfo element.

| Element: ExtendedInfo |  |                |            |                              |   |  |
|-----------------------|--|----------------|------------|------------------------------|---|--|
| Type                  | Code   | Extension code | Pos        | Value                        | Description   | Expected   |
| UI                    | STARTERS   |                |            | Numeric ##0                  | For @Type:<br>Send proposed type  | Always where status is not START_LIST  |
|                       |  |                |            |                              | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Do not send anything   |  |
|                       |  |                |            |                              | For @Value:<br>Send the number of competitors on the start list   |  |
|                       | COMPLETE   |                |            | Numeric ##0                  | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Do not send anything   |  |
|                       |  |                |            |                              | For @Value:<br>Send the number of competitors whose event unit is completed (includes IRMs)   |  |
|                       |  |                |            |                              |   |  |
|                       | LAST_QUAL  |                |            | S(20) with no leading zeroes | For @Type:<br>Send proposed type  | Only for Individual Sprint and Team Sprint (all phases except final)   |
|                       |  |                |            |                              | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Do not send anything   |  |
|                       |  |                |            |                              | For @Value:<br>Send the last qualifying place competitor ID.<br>In the situation where insufficient competitors have participated to show the last qualifying position then show the current last place |  |
|                       | PROVISIONAL  |                |            | Numeric 0                    | For @Type:<br>Send proposed type  | Only if this is provisional start list in biathlon   |
|                       |  |                |            |                              | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Do not send anything   |  |
|                       |  |                |            |                              | For @Value:<br>In Relay send 0<br>In Mass Start send the number of competitions that are complete (as used in header in ORIS)   |  |
|                       | RANGE  |                | Numeric #0 | S(1)                         | For @Type:<br>Send proposed type  | When applicable in biathlon.<br>For zeroing & range allocation   |
|                       |  |                |            |                              | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Send the shooting lane number (1..n).<br>Send all available shooting lanes.  |  |
|                       |  |                |            |                              | For @Value:<br>Send P for Prone and S for Standing  |  |
| DISPLAY               | INT_x<br>(x = overall Intermediate Point, not LEG) |                | Numeric 0  | S(20) without leading zeroes | For @Type:<br>Send proposed type  | When available and only when the unit is LIVE. Each competitor is only sent once at each intermediate (athlete in team events) |
|                       |  |                |            |                              | For @Code:<br>Send proposed code  |  |
|                       |  |                |            |                              | For @Pos:<br>Send a unique number for each competitor included (that is if two competitors updated send 1 & 2)  |  |
|                       |  |                |            |                              | For @Value:<br>Send the competitor ID of the last competitor(s) to reach the intermediate point (including F).  |  |

## Sample

```

.....
<ExtendedInfos>
  <UnitDateTime StartDate="2012-08-07T11:01:00+01:00" />
  <ExtendedInfo Type="UI" Code="STARTERS" Value="27" >
    <Extension Code="COMPLETE" Value="9" />
  </ExtendedInfo>
  <ExtendedInfo Type="DISPLAY" Code="INT_2" Pos="1" Value="123456" />
.....

```

## Biathlon

```

.....
<ExtendedInfos>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="1">
    <Competitor Organisation="NOR" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="2">
    <Competitor Organisation="AUT" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="3">
    <Competitor Organisation="CZE" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="4">
    <Competitor Organisation="RUS" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="5">
    <Competitor Organisation="CAN" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="6">
    <Competitor Organisation="FRA" />
  </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="7">
    <Competitor Organisation="SLO" />
  </ExtendedInfo>
.....

```

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

| Element: Result /ExtendedResults /ExtendedResult |              |                |      |                |  |   |
|--|--------------|----------------|------|----------------|--|---|
| Type   | Code         | Extension Code | Pos  | Value          | Description  | Expected                                      |
| PROGRESS   | INTERMEDIATE |                | S(2) | h:mm:ss.f      | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Intermediate point where the intermediate time is recorded (1, 2...F).<br>For @Value:<br>Cumulative time at the intermediate point in the current race. Do not send hours or minutes if zero. | When data is available for individual events. |
|  |              |                |      | CC @ResultType | For @ValueType:<br>Send CC @ResultType   |   |
|  |              |                |      | S(2)           | For @Rank:<br>Send the rank of the competitor at the intermediate point  |   |
|  |              |                |      | S(1)           | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |   |
|  |              |                |      | Numeric #0     | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |   |
|  |              |                |      |                |  |   |

| Element: Result /ExtendedResults /ExtendedResult |           |         |      |                     |   |                                      |
|--|-----------|---------|------|---------------------|---|--------------------------------------|
|  |           |         |      | SC @IRM             | For @IRM:<br>IRM at the intermediate if applicable  |                                      |
|  |           |         |      | h:mm:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader in the unit at the point. Do not send hours or minutes if zero.   |                                      |
|  |           | IDX_ARR |      | Numeric<br>#0       | For @Code:<br>Send proposed code  |                                      |
|  |           |         |      |                     | For @Pos:<br>Do not send anything   |                                      |
|  |           |         |      |                     | For @Value:<br>Arrival order at the intermediate point  |                                      |
|  | SECTION   |         | S(2) | m:ss.ff             | For @Type:<br>Send proposed type  | When available in individual events. |
|  |           |         |      |                     | For @Code:<br>Send proposed code  |                                      |
|  |           |         |      |                     | For @Pos:<br>Intermediate point at the end of the section where section time is taken (1, 2... F).<br>For example 1 is the section from the start to 1. |                                      |
|  |           |         |      |                     | For @Value:<br>Time for the section ending at the intermediate point @Pos.  |                                      |
|  |           |         |      |                     | CC @ResultType  |                                      |
|  |           |         |      |                     | For @ValueType:<br>Send CC @ResultType  |                                      |
|  |           |         |      |                     | S(2)  |                                      |
|  |           |         |      |                     | For @Rank:<br>Send the rank of the competitor in the section.   |                                      |
|  |           |         |      |                     | S(1)  |                                      |
|  |           |         |      |                     | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.   |                                      |
|  |           |         |      | Numeric<br>#0       | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs   |                                      |
|  |           |         |      | SC @IRM             | For @IRM:<br>IRM at the intermediate if applicable  |                                      |
|  |           |         |      | m:ss.f<br>or 0.0    | For @Diff:<br>Send the time behind the leader in the section. Do not send hours or minutes if zero.   |                                      |
|  | PRETIMING |         | S(2) | h:mm:ss.f           | For @Type:<br>Send proposed type  | Only for Interval Start events.      |
|  |           |         |      |                     | For @Code:<br>Send proposed code  |                                      |
|  |           |         |      |                     | For @Pos:<br>Pretiming point where the intermediate time is recorded (1, 2...F).  |                                      |
|  |           |         |      |                     | For @Value:<br>Cumulative time at the pretiming point in the current race. Do not send hours or minutes if zero.  |                                      |
|  |           |         |      |                     | CC @ResultType  |                                      |
|  |           |         |      |                     | For @ValueType:<br>Send CC @ResultType  |                                      |
|  |           |         |      |                     | S(2)  |                                      |
|  |           |         |      |                     | For @Rank:<br>Send the rank of the competitor at the pretiming point  |                                      |

| Element: Result /ExtendedResults /ExtendedResult |              |         |               |   |   |                                    |
|--|--------------|---------|---------------|---|---|------------------------------------|
|  |              |         |               | S(1)  | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.                             |                                    |
|  |              |         |               | Numeric #0  | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs       |                                    |
|  |              |         |               | SC @IRM   | For @IRM:<br>IRM at the pretiming point if applicable   |                                    |
|  |              |         |               | h:mm:ss.f or 0.0                                    | For @Diff:<br>Send the time behind the leader at the point. Do not send hours or minutes if zero.   |                                    |
|  |              | IDX_ARR |               | Numeric #0  | For @Code:<br>Send proposed code  | Only in interval start events      |
|  |              |         |               |   | For @Pos:<br>Do not send anything   |                                    |
|  |              |         |               |   | For @Value:<br>Arrival order at the pretiming point   |                                    |
|  | SHOOT        |         | S(2)          | m:ss.f  | For @Type:<br>Send proposed type  | Only in biathlon individual events |
|  |              |         |               |   | For @Code:<br>Send proposed code  |                                    |
|  |              |         |               |   | For @Pos:<br>Shooting point (1, 2...n).   |                                    |
|  |              |         |               |   | For @Value:<br>Total time in this shooting point. Do not send leading zeros.                        |                                    |
|  |              |         |               | m:ss.f or 0.0                                       | For @Diff:<br>Send the time behind the leader for this shooting point. Do not send minutes if zero. |                                    |
|  |              |         |               |   | SC @ResultType  |                                    |
|  |              |         |               | S(2)  | For @Rank:<br>Send the rank of the competitor based on @Value                                       |                                    |
|  |              |         |               | S(1)  | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.                             |                                    |
|  |              |         |               | Numeric #0  | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs       |                                    |
|  |              |         |               |   |   |                                    |
|  | PENALTY      |         | Numeric 0     | For @Code:<br>Send proposed code                    |   |                                    |
|  |              |         |               | For @Pos:<br>Do not send anything                   |   |                                    |
|  | PENALTY_TOT  |         | Numeric #0    | For @Value:<br>Total penalties in this shoot (0..5) |   |                                    |
|  |              |         |               | For @Code:<br>Send proposed code                    |   |                                    |
|  | PENALTY_TIME |         | Numeric #0    | For @Pos:<br>Do not send anything                   |   |                                    |
|  |              |         |               | For @Value:<br>Total penalties up to this point.    |   |                                    |
|  |              |         | m:ss.f or 0.0 | For @Code:<br>Send proposed code                    |   |                                    |
|  |              |         |               | For @Pos:<br>Do not send anything                   |   |                                    |

| Element: Result /ExtendedResults /ExtendedResult |       |         |      |                  |  |                                    |
|--|-------|---------|------|------------------|--|------------------------------------|
|  |       |         |      |                  | For @Value:<br>Send the penalty time at this shooting point  |                                    |
|  |       | ARRIVE  |      | h:mm:ss.f        | For @Code:<br>Send proposed code   |                                    |
|  |       |         |      |                  | For @Pos:<br>Do not send anything  |                                    |
|  |       |         |      |                  | For @Value:<br>Time of arrival at this shooting point. Do not send leading zeros.                                    |                                    |
|  |       | DEPART  |      | h:mm:ss.f        | For @Code:<br>Send proposed code   |                                    |
|  |       |         |      |                  | For @Pos:<br>Do not send anything  |                                    |
|  |       |         |      |                  | For @Value:<br>Time of departure from this shooting point (after any penalty loops). Do not send leading zeros.      |                                    |
|  |       | DEPART_ |      | m:ss.f           | For @Code:<br>Send proposed code   |                                    |
|  |       | DIFF    |      | or 0.0           | For @Pos:<br>Do not send anything  |                                    |
|  |       |         |      |                  | For @Value:<br>Send the time behind the leader at the departure of this shooting point. Do not send minutes if zero. |                                    |
|  | RANGE |         | S(2) | m:ss.f           | For @Type:<br>Send proposed type   | Only in biathlon individual events |
|  |       |         |      |                  | For @Code:<br>Send proposed code   |                                    |
|  |       |         |      |                  | For @Pos:<br>Shooting point (1, 2...n).  |                                    |
|  |       |         |      |                  | For @Value:<br>Range time for this shoot. Do not send leading zeros.   |                                    |
|  |       |         |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |                                    |
|  |       |         |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |                                    |
|  |       |         |      | S(2)             | For @Rank:<br>Send the rank of the competitor based on @Value  |                                    |
|  |       |         |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |                                    |
|  |       |         |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs                        |                                    |
|  | LOOP  |         | S(2) | m:ss.f           | For @Type:<br>Send proposed type   | Only in biathlon individual events |
|  |       |         |      |                  | For @Code:<br>Send proposed code   |                                    |
|  |       |         |      |                  | For @Pos:<br>Loop (1, 2...n).  |                                    |
|  |       |         |      |                  | For @Value:<br>Time for this loop. Do not send leading zeros.  |                                    |
|  |       |         |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader for this loop. Do not send minutes if zero.                            |                                    |



| Element: Result /ExtendedResults /ExtendedResult |        |  |      |                  |  |   |
|--|--------|--|------|------------------|--|---|
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |   |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank of the<br>competitor based on<br>@Value  |   |
|  |        |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is<br>equalled, otherwise do not<br>send.  |   |
|  |        |  |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank<br>to sort the competitor<br>considering equals and<br>IRMs   |   |
|  | COURSE |  | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Loop (1, 2...n).<br>For @Value:<br>Course time for this loop.<br>Do not send leading zeros.                           | Only in<br>biathlon<br>individual<br>events                             |
|  |        |  |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the<br>leader. Do not send<br>minutes if zero.  |   |
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |   |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank of the<br>competitor based on<br>@Value  |   |
|  |        |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is<br>equalled, otherwise do not<br>send.  |   |
|  |        |  |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank<br>to sort the competitor<br>considering equals and<br>IRMs   |   |
|  | SKI    |  | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Loop (1, 2...n).<br>For @Value:<br>Ski time (regardless of<br>penalties) for this loop. Do<br>not send leading zeros. | Only in<br>biathlon<br>individual<br>competition<br>(20km M,<br>15km W) |
|  |        |  |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the<br>leader. Do not send<br>minutes if zero.  |   |
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |   |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank of the<br>competitor based on<br>@Value  |   |
|  |        |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is<br>equalled, otherwise do not<br>send.  |   |

| Element: Result /ExtendedResults /ExtendedResult |                               |  |      |                  |  |                    |
|--|-------------------------------|--|------|------------------|--|--------------------|
|  |                               |  |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |                    |
|  | STYLE                         |  | S(2) | h:mm:ss.f        | For @Type:<br>Send proposed type   | Only for Skiathlon |
|  |                               |  |      |                  | For @Code:<br>Send proposed code   |                    |
|  |                               |  |      |                  | For @Pos:<br>Style or PitStop. Send C, F, or PS for Classical, Free or PitStop   |                    |
|  |                               |  |      |                  | For @Value:<br>Result time of the style/stop. Do not send hours or minutes if zero.  |                    |
|  |                               |  |      | CC @ResultType   | For @ValueType:<br>Send CC @ResultType   |                    |
|  |                               |  |      | S(2)             | For @Rank:<br>Send the rank of the competitor in the style/stop  |                    |
|  |                               |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |                    |
|  |                               |  |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |                    |
| SC @IRM  | For @IRM:<br>IRM in the style |  |      |                  |  |                    |
|  |                               |  |      | h:mm:ss.f or 0.0 | For @Diff:<br>Send the time behind the leader in the unit in the style. Do not send hours or minutes if zero.  |                    |
| ER   | PHOTO                         |  |      | S(1)             | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>To know if the competitor's final result was decided by photo.<br>Send Y for Evaluated, P for Pending, otherwise do not send<br>If pending then those pending competitors will not have rank but will still be sorted in the correct place (as well as is known).<br>For example: Rank = 1,,,4... and SortOrder = 1,2,3,4... | If applicable      |
|  | SHOOT_TOT                     |  |      | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total time shooting. Do not send leading zeros.  | Only in biathlon   |
|  |                               |  |      | m:ss.f or 0.0    | For @Diff:<br>Send the shooting time behind the leader. Do not send minutes if zero.   |                    |

| Element: Result /ExtendedResults /ExtendedResult |            |                  |  |                  |  |   |
|--|------------|------------------|--|------------------|--|---|
|  |            |                  |  | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |   |
|  |            |                  |  | S(2)             | For @Rank:<br>Send the rank of the<br>competitor based on<br>@Value                                    |   |
|  |            |                  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is<br>equalled, otherwise do not<br>send.                          |   |
|  |            |                  |  | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank<br>to sort the competitor<br>considering equals and<br>IRMs |   |
|  |            | PENALTY          |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon                       |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Value:<br>Total penalties in shooting<br>for the competitor                                       |   |
|  |            | PENALTY<br>_TIME |  | m:ss.f<br>or 0.0 | For @Code:<br>Send proposed code   | Only in<br>biathlon                       |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Send total shooting<br>penalty time  |   |
|  |            | SPARE            |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon relay<br>for the team |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Total used spare rounds  |   |
|  |            | PRONE            |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon relay<br>for the team |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Total prone penalties in<br>shooting for the competitor                                  |   |
|  |            | PRONE_S<br>PARE  |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon relay<br>for the team |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Total used spare rounds in<br>prone  |   |
|  |            | STAND            |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon relay<br>for the team |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Total standing penalties in<br>shooting for the competitor                               |   |
|  |            | STAND_S<br>PARE  |  | Numeric<br>#0    | For @Code:<br>Send proposed code   | Only in<br>biathlon relay<br>for the team |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Diff:<br>Total used spare rounds in<br>standing   |   |
|  | COURSE_TOT |                  |  | h:mm:ss.f        | For @Type:<br>Send proposed type   | Only in<br>biathlon                       |
|  |            |                  |  |                  | For @Code:<br>Send proposed code   |   |
|  |            |                  |  |                  | For @Pos:<br>Do not send anything  |   |
|  |            |                  |  |                  | For @Value:<br>Total course time. Do not<br>send leading zeros.  |   |

| Element: Result /ExtendedResults /ExtendedResult |           |  |  |                  |  |
|--|-----------|--|--|------------------|--|
|  |           |  |  | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |
|  |           |  |  | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |
|  |           |  |  | S(2)             | For @Rank:<br>Send the rank of the competitor based on @Value  |
|  |           |  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |
|  |           |  |  | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |
|  | RANGE_TOT |  |  | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total range time. Do not send leading zeros. |
|  |           |  |  | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |
|  |           |  |  | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |
|  |           |  |  | S(2)             | For @Rank:<br>Send the rank of the competitor based on @Value  |
|  |           |  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |
|  |           |  |  | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |
|  | SKI_TOT   |  |  | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total ski time. Do not send leading zeros.   |
|  |           |  |  | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |
|  |           |  |  | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |
|  |           |  |  | S(2)             | For @Rank:<br>Send the rank of the competitor based on @Value  |
|  |           |  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |

| Element: Result /ExtendedResults /ExtendedResult |             |  |      |                |  |                           |
|--|-------------|--|------|----------------|--|---------------------------|
|  |             |  |      | Numeric #0     | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |                           |
|  | RAW         |  |      | h:mm:ss.f      | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Raw total time (without start behind time, i.e. the different between finishing time and start behind time). Do not send leading zeros.    | Only in biathlon pursuit  |
|  |             |  |      | m:ss.f or 0.0  | For @Diff:<br>Send the time behind. Do not send minutes if zero.   |                           |
|  |             |  |      | SC @ResultType | For @ValueType:<br>Send CC @ResultType, (TIME)   |                           |
|  |             |  |      | S(2)           | For @Rank:<br>Send the rank of the competitor based on @Value  |                           |
|  |             |  |      | S(1)           | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |                           |
|  |             |  |      | Numeric #0     | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs  |                           |
|  | TIME_ADJUST |  | S(2) | m:ss.f         | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send the Shooting No. at which the time needed to be adjusted or "0" if adjusted from the start<br>For @Value:<br>Send the time adjustment (- or +). Do not send minutes if zero. | If applicable in biathlon |
|  | POT_DSQ     |  |      | S(1)           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send "Y" if the competitor is a potential disqualification, time adjustment or protest in this unit else do not send.                      | If applicable             |
|  | IRM_RULE    |  |      | String         | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything.<br>For @Value:<br>Send rule number if disqualified or for the time adjustment in Biathlon   | If applicable             |

| Element: Result /ExtendedResults /ExtendedResult |               |  |  |        |   |               |
|--|---------------|--|--|--------|---|---------------|
|  | IRM_RULE_TEXT |  |  | String | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything.<br>For @Value:<br>Send rule description if disqualified. | If applicable |

### Sample (Cross Country)

```

.....
<Result SortOrder="1" ResultType="TIME" Rank="1" Result="1:08:15.4" StartOrder="12"
StartSortOrder="12" Diff="0.0">
  <ExtendedResults>
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="1" ValueType="TIME"
Value="3:56.3" Diff="+5.1" Rank="11" RankEqual="Y" SortOrder="12" />
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="2" ValueType="TIME"
Value="9:11.6" Diff="+1.5" Rank="5" SortOrder="5" />
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="3" ValueType="TIME"
Value="13:02.3" Diff="+3.0" Rank="7" SortOrder="7" />
.....
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="F" ValueType="TIME"
Value="1:08:15.4" Diff="0.0" Rank="1" SortOrder="1" />
.....
    <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="1" ValueType="TIME"
Value="3:56.3" Diff="+5.1" Rank="11" RankEqual="Y" SortOrder="12" />
    <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="2" ValueType="TIME"
Value="5:15.3" Diff="+3.8" Rank="15" SortOrder="15" />
    <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="3" ValueType="TIME"
Value="3:50.7" Diff="+5.2" Rank="22" SortOrder="22" />
.....
    <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="F" ValueType="TIME"
Value="4:55.9" Diff="0.0" Rank="1" SortOrder="1" />
    <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="C" ValueType="TIME"
Value="36:04.9" Diff="+5.7" Rank="13" SortOrder="13" />
    <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="PS" ValueType="TIME" Value="30.9"
Diff="+2.1" Rank="15" RankEqual="Y" SortOrder="16" />
    <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="F" ValueType="TIME"
Value="31:39.6" Diff="+2.9" Rank="2" SortOrder="2" />
  </ExtendedResults>
  <Competitor Code="2040363" Type="A" Organisation="NED" >
    <Composition>
      <Athlete Code="2040363" Bib="21" Order="1">
        <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="NED"
BirthDate="1994-11-15" />
      </Athlete>
    </Composition>
  </Competitor>
</Result>
.....

```

## Sample (Biathlon)

```

.....
<Result SortOrder="2" ResultType="TIME" Rank="2" Result="24:34.8" Diff="1.3"
StartOrder="5" StartSortOrder="5" >
  <ExtendedResults>
    <ExtendedResult Type="ER" Code="SHOOT_TOT" ValueType="TIME" Value="58.0" Diff="2.9"
Rank="8" >
      <Extension Code="PENALTY" Value="0" />
      <Extension Code="PENALTY_TIME" Value="17.8" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="SHOOT" Pos="1" ValueType="TIME" Value="30.0"
Diff="3.9" Rank="14" RankEqual="Y" >
      <Extension Code="PENALTY" Value="0" />
      <Extension Code="PENALTY_TIME" Value="9.8" />
      <Extension Code="ARRIVE" Value="7:45.7" />
      <Extension Code="DEPART" Value="8:41.8" />
      <Extension Code="DEPART_DIFF" Value="6.9" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="SHOOT" Pos="2" ValueType="TIME" Value="28.0"
Diff="1.7" Rank="7" >
      <Extension Code="PENALTY" Value="0" />
      <Extension Code="PENALTY_TIME" Value="8.0" />
      <Extension Code="ARRIVE" Value="16:17.2" />
      <Extension Code="DEPART" Value="17:10.6" />
      <Extension Code="DEPART_DIFF" Value="11.8" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="LOOP" ValueType="TIME" Value="8:41.8" Pos="1"
Diff="23.9" Rank="14" RankEqual="Y" SortOrder="15" />
    <ExtendedResult Type="PROGRESS" Code="LOOP" ValueType="TIME" Value="8:28.8" Pos="2"
Diff="6.9" Rank="7" SortOrder="7" />
    <ExtendedResult Type="PROGRESS" Code="LOOP" ValueType="TIME" Value="7:24.2" Pos="3"
Diff="0.0" Rank="1" SortOrder="1" />
    <ExtendedResult Type="ER" Code="COURSE_TOT" ValueType="TIME" Value="22:45.3"
Diff="9.4" Rank="4" SortOrder="4" />
    <ExtendedResult Type="PROGRESS" Code="COURSE" ValueType="TIME" Value="7:45.7"
Pos="1" Diff="17.1" Rank="16" SortOrder="16" />
    <ExtendedResult Type="PROGRESS" Code="COURSE" ValueType="TIME" Value="7:35.4"
Pos="2" Diff="8.7" Rank="11" SortOrder="11" />
    <ExtendedResult Type="PROGRESS" Code="COURSE" ValueType="TIME" Value="7:24.2"
Pos="3" Diff="0.0" Rank="1" SortOrder="1" />
    <ExtendedResult Type="ER" Code="RANGE_TOT" ValueType="TIME" Value="1:31.7"
Diff="14.2" Rank="44" RankEqual="Y" SortOrder="44" />
    <ExtendedResult Type="PROGRESS" Code="RANGE" ValueType="TIME" Value="46.3" Pos="1"
Diff="7.3" Rank="40" RankEqual="Y" SortOrder="40" />
    <ExtendedResult Type="PROGRESS" Code="RANGE" ValueType="TIME" Value="45.4" Pos="2"
Diff="8.2" Rank="48" SortOrder="48" />
    <ExtendedResult Type="PROGRESS" Code="PRETIMING" ValueType="TIME" Value="2:33.2"
Pos="1" Diff="6.3" Rank="22" RankEqual="Y" SortOrder="22" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="4:47.2"
Pos="1" Diff="7.4" Rank="12" SortOrder="12" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="PRETIMING" ValueType="TIME" Value="6:12.2"
Pos="2" Diff="14.0" Rank="19" SortOrder="19" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="7:45.7"
Pos="2" Diff="17.1" Rank="16" SortOrder="16" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="PRETIMING" ValueType="TIME" Value="11:01.1"
Pos="3" Diff="29.9" Rank="13" SortOrder="13" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
    <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="8:41.8"
Pos="3" Diff="23.9" Rank="14" RankEqual="Y" SortOrder="15" >
      <Extension Code="IDX_ARR" Value="15" />
    </ExtendedResult>
.....
  </ExtendedResult>
  <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="21:37.6"
Pos="7" Diff="10.7" Rank="5" SortOrder="5" >
    <Extension Code="IDX_ARR" Value="11" />
  </ExtendedResult>

```

```

<ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="24:34.8"
Pos="F" Diff="1.3" Rank="2" SortOrder="2" >
  <Extension Code="IDX_ARR" Value="9" />
</ExtendedResult>
<ExtendedResult Type="PROGRESS" Code="SECTION" ValueType="TIME" Value="4:47.2"
Pos="1" Diff="7.4" Rank="12" SortOrder="12" />
<ExtendedResult Type="PROGRESS" Code="SECTION" ValueType="TIME" Value="2:58.5"
Pos="2" Diff="9.7" Rank="42" SortOrder="42" />
<ExtendedResult Type="PROGRESS" Code="SECTION" ValueType="TIME" Value="56.1" Pos="3"
Diff="7.4" Rank="26" SortOrder="26" />
.....
<ExtendedResult Type="PROGRESS" Code="SECTION" ValueType="TIME" Value="2:57.2"
Pos="F" Diff="0.0" Rank="1" SortOrder="1" />
</ExtendedResults>
<Competitor Code="2023687" Type="A">
  <Composition>
    <Athlete Code="2023687" Bib="15" Order="1" Organisation="GER" >
      <Description GivenName="John" FamilyName="Smith" Gender="M" Organisation="GER"
BirthDate="1994-12-15" />
    </Athlete>
  </Composition>
</Competitor>
</Result>
.....

```

The following table describes in more detail the Result /Competitor /EventUnitEntry element.

| Element: Result /Competitor /EventUnitEntry |             |     |                    |  |                              |
|---|-------------|-----|--------------------|--|------------------------------|
| Type  | Code        | Pos | Value              | Description  | Expected                     |
| EUE   | FIS PTS     |     | Numeric<br>###0.00 | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @ Pos:<br>Do not send anything<br>For @Value:<br>Team FIS points | Cross Country<br>Team sprint |
|   | START_GROUP |     | Numeric<br>##0     | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @ Pos:<br>Do not send anything<br>For @Value:<br>Start row       | Always                       |

The following table describes in more detail the Result /Competitor /Composition /Athlete /EventUnitEntry element.

| Element: Result /Competitor /Composition /Athlete /EventUnitEntry |             |      |                    |   |  |
|---|-------------|------|--------------------|---|--|
| Type  | Code        | Pos  | Value              | Description   | Expected   |
| EUE   | FIS PTS     | S(1) | Numeric<br>###0.00 | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @ Pos:<br>In case of Team Sprint only send D<br>for distance points or S for sprint<br>points.<br>For @Value:<br>FIS points | Send if FIS points<br>(or "seeded") in<br>the case of<br>interval start,<br>sprint, mass start<br>and Skiathlon. |
|   | START_GROUP |      | Numeric<br>##0     | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @ Pos:<br>Do not send anything<br>For @Value:<br>Start lane, row or group   | Individual mass<br>start races and<br>biathlon pursuit<br>and individual   |
|   | START_TIME  |      | hh:mm:ss           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code  | Races with<br>interval start   |



| Element: Result /Competitor /Composition /Athlete /EventUnitEntry |  |                |  |  |   |
|---|--|----------------|--|--|---|
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Start time  |   |
| HCP_TIME  |  | m:ss           |  | For @Type:<br>Send proposed type   | Biathlon pursuit                        |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Handicap time or start behind time  |   |
| WAVE  |  | m:ss           |  | For @Type:<br>Send proposed type   | If the competitor<br>is in a wave start |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Time of the wave start for the<br>competitor if applicable  |   |
| LEG_BIB   |  | Numeric<br>0   |  | For @Type:<br>Send proposed type   | All team events                         |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Leg number of the Team member.<br>For Team Sprint provide number of<br>the first leg (1 or 2).<br>For Relay should be 1,2,3,4 |   |
| COLOUR  |  | S(1)           |  | For @Type:<br>Send proposed type   | All team events                         |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Bib colour ("b", "g", "r" or "y")   |   |
| TECHNIQUE   |  | S(1)           |  | For @Type:<br>Send proposed type   | Cross Country<br>Relay                  |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Skiing Technique ("C" or "F")   |   |
| QUAL_GROUP  |  | SC @MassGroup  |  | For @Type:<br>Send proposed type   | Biathlon Mass<br>Start                  |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Send applicable code  |   |
| RANK_WLD  |  | Numeric<br>##0 |  | For @Type:<br>Send proposed type   | Biathlon Mass<br>Start                  |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>World Cup Rank  |   |
| OG_PTS  |  | Numeric<br>##0 |  | For @Type:<br>Send proposed type   | Biathlon Mass<br>Start                  |
|   |  |                |  | For @Code:<br>Send proposed code   |   |
|   |  |                |  | For @ Pos:<br>Do not send anything   |   |
|   |  |                |  | For @Value:<br>Olympic Games Points  |   |

The following table describes in more detail the Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element for team events only.

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |              |                |      |                  |   |  |
|--|--------------|----------------|------|------------------|---|--|
| Type   | Code         | Extension Code | Pos  | Value            | Description   | Expected                               |
| PROGRESS   | INTERMEDIATE |                | S(2) | h:mm:ss.f        | For @Type:<br>Send proposed type  | When data is available in team events. |
|  |              |                |      |                  | For @Code:<br>Send proposed code  |  |
|  |              |                |      |                  | For @Pos:<br>Intermediate point where the intermediate time is recorded (1, 2...F).   |  |
|  |              |                |      |                  | For @Value:<br>Cumulative time at the intermediate point in the current race. Do not send hours or minutes if zero.                                     |  |
|  |              |                |      | CC @ResultType   | For @ValueType:<br>Send CC @ResultType  |  |
|  |              |                |      | S(2)             | For @Rank:<br>Send the rank of the competitor at the intermediate point   |  |
|  |              |                |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.   |  |
|  |              |                |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs   |  |
|  |              |                |      | SC @IRM          | For @IRM:<br>IRM at the intermediate if applicable  |  |
|  |              |                |      | h:mm:ss.f or 0.0 | For @Diff:<br>Send the time behind the leader in the unit at the point. Do not send hours or minutes if zero.   |  |
|  | SECTION      |                | S(2) | m:ss.ff          | For @Type:<br>Send proposed type  | When data is available in team events. |
|  |              |                |      |                  | For @Code:<br>Send proposed code  |  |
|  |              |                |      |                  | For @Pos:<br>Intermediate point at the end of the section where section time is taken (1, 2... F).<br>For example 1 is the section from the start to 1. |  |
|  |              |                |      |                  | For @Value:<br>Time for the section ending at the intermediate point @Pos.  |  |
|  |              |                |      | CC @ResultType   | For @ValueType:<br>Send CC @ResultType  |  |
|  |              |                |      | S(2)             | For @Rank:<br>Send the rank of the competitor in the section.   |  |
|  |              |                |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.   |  |
|  |              |                |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort the competitor considering equals and IRMs   |  |
|  |              |                |      | SC @IRM          | For @IRM:<br>IRM at the intermediate if applicable  |  |

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |           |         |      |                  |   |  |
|--|-----------|---------|------|------------------|---|--|
|  |           |         |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader in the section. Do not send hours or minutes if zero.   |  |
|  | LEG_SPLIT |         | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Identifies the leg or round, from 1 to the total number of legs (relay) or rounds (team sprint)<br>For @Value:<br>Leg time in the @Pos leg or round for the team member in the leg (relay) or round (team sprint). It is not cumulative. | When data is available in team events. |
|  |           |         |      | CC @ResultType   | For @ValueType:<br>Send CC @ResultType  |  |
|  |           |         |      | S(2)             | For @Rank:<br>Rank @Pos in the leg or round for the team member in the leg (relay) or round (team sprint).  |  |
|  |           |         |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.   |  |
|  |           |         |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort the team member in the leg (relay) or round (team sprint).considering equals and IRMs  |  |
|  |           |         |      | SC @IRM          | For @IRM:<br>IRM at the intermediate if applicable  |  |
|  |           |         |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader in the unit at the split.   |  |
| PROGRESS   | SHOOT     |         | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Cumulative shooting point, not within the leg (1, 2...n).<br>For @Value:<br>Total time in this shooting point for the athlete. Do not send leading zeros.  | Only in biathlon relay                 |
|  |           |         |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader for this shooting point. Do not send minutes if zero.   |  |
|  |           |         |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)  |  |
|  |           |         |      | S(2)             | For @Rank:<br>Send the rank of the athlete based on @Value  |  |
|  |           |         |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.   |  |
|  |           |         |      | Numeric #0       | For @SortOrder:<br>Index based on the Rank to sort considering equals and IRMs  |  |
|  |           | PENALTY |      | Numeric 0        | For @Code:<br>Send proposed code  |  |

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |  |              |  |                  |   |
|--|--|--------------|--|------------------|---|
|  |  |              |  |                  | For @Pos:<br>Do not send anything<br>For @Value:<br>Total penalties in this shoot (0..5)  |
|  |  | PENALTY_TOT  |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total penalties up to this point.   |
|  |  | PENALTY_CUM  |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total penalties for the team up to this point.  |
|  |  | SPARE        |  | Numeric<br>0     | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total spare rounds used in this shoot   |
|  |  | SPARE_TOT    |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total spare rounds used up to this point  |
|  |  | SPARE_CUM    |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total spare rounds used by the team up to this point  |
|  |  | PENALTY_TIME |  | m:ss.f<br>or 0.0 | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Send the penalty time at this shooting point   |
|  |  | ARRIVE       |  | h:mm:ss.f        | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Time of arrival at this shooting point. Do not send leading zeros.  |
|  |  | DEPART       |  | h:mm:ss.f        | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Time of departure from this shooting point. Do not send leading zeros.                                    |
|  |  | DEPART_DIFF  |  | m:ss.f<br>or 0.0 | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Send the team time behind the leader at the departure of this shooting point. Do not send minutes if zero. |

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |        |  |      |                  |  |                              |
|--|--------|--|------|------------------|--|------------------------------|
|  | RANGE  |  | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Shooting point (1, 2...n).<br>For @Value:<br>Range time for this shoot.<br>Do not send leading zeros. | Only in<br>biathlon<br>relay |
|  |        |  |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the<br>leader. Do not send minutes<br>if zero.  |                              |
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |                              |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank based on<br>@Value   |                              |
|  |        |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled,<br>otherwise do not send.   |                              |
|  |        |  |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to<br>sort considering equals and<br>IRMs   |                              |
|  |        |  |      |                  |  |                              |
|  | LOOP   |  | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Loop (1, 2...n).<br>For @Value:<br>Time for this loop. Do not<br>send leading zeros.                  | Only in<br>biathlon<br>relay |
|  |        |  |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the<br>leader for this loop. Do not<br>send minutes if zero.  |                              |
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |                              |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank based on<br>@Value   |                              |
|  |        |  |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled,<br>otherwise do not send.   |                              |
|  |        |  |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to<br>sort the athlete considering<br>equals and IRMs   |                              |
|  |        |  |      |                  |  |                              |
|  | COURSE |  | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Loop (1, 2...n).<br>For @Value:<br>Course time for this loop. Do<br>not send leading zeros.           | Only in<br>biathlon<br>relay |
|  |        |  |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the<br>leader. Do not send minutes<br>if zero.  |                              |
|  |        |  |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |                              |
|  |        |  |      | S(2)             | For @Rank:<br>Send the rank of the athlete<br>based on @Value  |                              |
|  |        |  |      |                  |  |                              |

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |           |                  |  |                  |  |  |
|--|-----------|------------------|--|------------------|--|--|
| ER   | SHOOT_TOT |                  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled,<br>otherwise do not send.   | Only in<br>biathlon<br>relay                 |
|  |           |                  |  | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to<br>sort the athlete considering<br>equals and IRMs   |  |
|  |           |                  |  | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total time shooting. Do not<br>send leading zeros. |  |
|  |           |                  |  | m:ss.f<br>or 0.0 | For @Diff:<br>Send the shooting time<br>behind the leader. Do not<br>send minutes if zero.   |  |
|  |           |                  |  | SC @ResultType   | For @ValueType:<br>Send CC @ResultType,<br>(TIME)  |  |
|  |           |                  |  | S(2)             | For @Rank:<br>Send the rank based on<br>@Value   |  |
|  |           |                  |  | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled,<br>otherwise do not send.   |  |
|  |           |                  |  | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to<br>sort considering equals and<br>IRMs   |  |
|  |           | PENALTY          |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total penalties in shooting<br>for the athlete   | Only in<br>biathlon                          |
|  |           |                  |  |                  |  |  |
|  |           |                  |  |                  |  |  |
|  |           | PENALTY<br>_TIME |  | m:ss.f<br>or 0.0 | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Send total shooting penalty<br>time   | Only in<br>biathlon                          |
|  |           |                  |  |                  |  |  |
|  |           |                  |  |                  |  |  |
|  |           | SPARE            |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Total used spare rounds   | Only in<br>biathlon<br>relay for the<br>team |
|  |           |                  |  |                  |  |  |
|  |           |                  |  |                  |  |  |
|  |           | PRONE            |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Total prone penalties in<br>shooting for the athlete                                    | Only in<br>biathlon<br>relay for the<br>team |
|  |           |                  |  |                  |  |  |
|  |           |                  |  |                  |  |  |
|  |           | PRONE_S<br>PARE  |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Total used spare rounds in<br>prone   | Only in<br>biathlon<br>relay for the<br>team |
|  |           |                  |  |                  |  |  |
|  |           |                  |  |                  |  |  |
|  |           | STAND            |  | Numeric<br>#0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything  | Only in<br>biathlon<br>relay for the<br>team |
|  |           |                  |  |                  |  |  |

| Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult |             |                 |      |                  |  |                                     |
|--|-------------|-----------------|------|------------------|--|-------------------------------------|
|  |             | STAND_S<br>PARE |      | Numeric<br>#0    | For @Diff:<br>Total standing penalties in shooting for the athlete<br><br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Diff:<br>Total used spare rounds in standing                       | Only in biathlon relay for the team |
|  | COURSE_TOT  |                 |      | h:mm:ss.f        | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total course time. Do not send leading zeros.  | Only in biathlon relay              |
|  |             |                 |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |                                     |
|  |             |                 |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |                                     |
|  |             |                 |      | S(2)             | For @Rank:<br>Send the rank based on @Value  |                                     |
|  |             |                 |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |                                     |
|  |             |                 |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to sort considering equals and IRMs   |                                     |
|  | RANGE_TOT   |                 |      | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Total range time. Do not send leading zeros.   | Only in biathlon relay              |
|  |             |                 |      | m:ss.f<br>or 0.0 | For @Diff:<br>Send the time behind the leader. Do not send minutes if zero.  |                                     |
|  |             |                 |      | SC @ResultType   | For @ValueType:<br>Send CC @ResultType, (TIME)   |                                     |
|  |             |                 |      | S(2)             | For @Rank:<br>Send the rank of the athlete based on @Value   |                                     |
|  |             |                 |      | S(1)             | For @RankEqual:<br>Send "Y" if rank is equalled, otherwise do not send.  |                                     |
|  |             |                 |      | Numeric<br>#0    | For @SortOrder:<br>Index based on the Rank to sort considering equals and IRMs   |                                     |
|  | TIME_ADJUST |                 | S(2) | m:ss.f           | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send intermediate point where the time was adjusted<br>For @Value:<br>Send the time adjustment (- or +). Do not send minutes if zero. | If applicable in biathlon relay     |

### Sample (Cross Country)

```
.....
<Result SortOrder="1" ResultType="TIME" Rank="1" Result="53:02.7" Diff="0.0"
StartOrder="10" StartSortOrder="10" >
  <Competitor Code="CCSW4x5km--SWE01" Bib="2" Type="T" Organisation="SWE" >
    <Description TeamName="Sweden" />
    <Composition>
      <Athlete Bib="2-1" Code="2019490" Order="1">
        <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="NED"
        BirthDate="1994-11-15" />
        <ExtendedResults>
          <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="1" ValueType="TIME"
          Value="4:23.3" Diff="+1.3" Rank="5" SortOrder="5" />
          <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="2" ValueType="TIME"
          Value="6:56.8" Diff="+1.3" Rank="7" SortOrder="7" />
          <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="3" ValueType="TIME"
          Value="11:29.6" Diff="+0.4" Rank="2" SortOrder="2" />
          <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="F" ValueType="TIME"
          Value="14:09.8" Diff="+4.3" Rank="3" SortOrder="3" />
          <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="1" ValueType="TIME"
          Value="4:23.3" Diff="+1.3" Rank="5" SortOrder="5" />
          <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="2" ValueType="TIME"
          Value="2:33.5" Diff="+1.8" Rank="7" RankEqual="Y" SortOrder="7" />
          <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="3" ValueType="TIME"
          Value="4:32.8" Diff="+0.7" Rank="2" SortOrder="2" />
          <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="F" ValueType="TIME"
          Value="2:40.2" Diff="+5.9" Rank="4" SortOrder="4" />
          <ExtendedResult Type="PROGRESS" Code="LEG_SPLIT" Pos="1" ValueType="TIME"
          Value="14:09.8" Diff="+4.3" Rank="3" SortOrder="3" />
        </ExtendedResults>
      </Athlete>
      <Athlete Bib="2-2" Code="2014836" Order="2">

```

.....

#### 2.1.3.6 Message sort

Please, follow the general definition.



## 2.1.4 Current Information

### 2.1.4.1 Description

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

### 2.1.4.2 Header Values

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

The DocumentCode will be the RSC of the unit.

There are two different types of DT\_CURRENT messages, one for the overall unit which does not have any DocumentSubcode and another which has the athlete ID as the DocumentSubcode which is only used for shooting information in biathlon.

### 2.1.4.3 Trigger and Frequency

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

- For the overall message (no DocumentSubcode)
  - At any time a competitor starts in interval start events as there will be a new “next” (unless last athlete).
  - Whenever the competitor most advanced on the course reaches a new intermediate point.
  - As soon as the leading team starts a new leg in a team event.
  - As soon as any competitor enters or departs from the range (biathlon)
- For the individual athlete message (with DocumentSubcode). Single message for all shooting for the athlete.
  - One message per athlete when the athlete enters the range
  - Update after each shot
  - Update when athlete departs the range.

#### Understanding Biathlon Shooting Sessions

There are 3 quite common exceptions situations which can happen during shooting which therefore need to be considered and is the reason some values are not updated during a shooting session:

- a shot does not hit the target at all, thus no “missed shot” information is available for this shot (in such a case the session would have only 4 shots and not 5)
- a shot from an adjacent target might ricochet and touch the target frame with sufficient force to create a “missed shot” (in such case the session might have 6 shots and not 5)
- an athlete might crossfire to the wrong target. In such case s/he is credited 5 penalties but has “no shots” at all

For these reasons, the “number” of penalties in a session is available only when the operator at the shooting range confirms that the athlete has left the lane. The number of penalties is then the number of “still open” targets regardless of the shots recorded in the session. So it’s important to understand that the “official penalties” are recorded once the operator confirms the end of the shooting which is 1 to 2 seconds after the recording of the last shot of the session.

Given this, it is important to be aware that there is a potential mismatch in between the values in the Result element and the UnitActions of the message at athlete level.

### 2.1.4.4 Message Structure

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

- Result /ExtendedResults /ExtendedResult

#### 2.1.4.5 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.

Only send the following elements in the individual message.

| Element                                     | Attribute      | M/O | Value                        | Comments   |
|---|----------------|-----|------------------------------|--|
| UnitActions /UnitAction                     | Type           | M   | S(4)                         | SHOOT  |
|   | Code           | M   | Numeric<br>0                 | Send the shoot number  |
|   | Pos            | M   | Numeric<br>0                 | Shot number at the current shooting point  |
|   | Result         | M   | S(1)                         | Result of the shot H for hit and M for miss  |
|   | Value          | O   | S(1)                         | Send the target number if the shot was successful                                    |
| Result                                      | ResultType     | M   | SC @ResultType               | Result type. PENALTY   |
|   | Result         | O   | Numeric<br>#0                | Total penalties so far for the athlete at all completed shooting points in the unit. |
|   | SortOrder      | M   | Numeric<br>#0                | Start Order in the unit  |
|   | StartSortOrder | M   | Numeric<br>#0                | Start Order in the unit  |
| Result /Competitor                          | Code           | M   | S(20) with no leading zeroes | Competitor ID  |
|   | Type           | M   | S(1)                         | A for athlete, T for Team  |
|   | Organisation   | O   | S(3)                         | Organisation ID  |
| Result /Competitor<br>/Composition /Athlete | Code           | M   | S(20) with no leading zeroes | Athlete ID   |
|   | Order          | M   | Numeric<br>0                 | Always 1   |
|   | Bib            | O   | S(5)                         | Bib number<br>Numeric for individuals.<br>##0-0 for team members.                    |

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

| Element: ExtendedInfos /ExtendedInfo |                   |                |     |                                       |   |   |
|--------------------------------------|-------------------|----------------|-----|---------------------------------------|---|---|
| Type                                 | Code              | Extension code | Pos | Value                                 | Description   | Expected  |
| DISPLAY                              | NEXT              |                |     | S(20)<br>without<br>leading<br>zeroes | For @Type:<br>Send proposed type  | In interval start events.<br>(overall message)            |
|                                      |                   |                |     |                                       | For @Code:<br>Send proposed code  |   |
|                                      |                   |                |     |                                       | For @Pos:<br>Do not send anything.  |   |
|                                      |                   |                |     |                                       | For @Value:<br>Send the competitor ID of the next competitor to start.                |   |
|                                      | CURR_LEG          |                |     | Numeric<br>0                          | For @Type:<br>Send proposed type  | Team Sprint and Relay events (overall message)            |
|                                      |                   |                |     |                                       | For @Code:<br>Send proposed code  |   |
|                                      |                   |                |     |                                       | For @Pos:<br>Do not send anything.  |   |
|                                      |                   |                |     |                                       | For @Value:<br>Current Leg reached by the leading competitor updated at the exchange. |   |
|                                      | CURR_INTERMEDIATE |                |     | S(2)                                  | For @Type:<br>Send proposed type  | All events with intermediate points.<br>(overall message) |
|                                      |                   |                |     |                                       | For @Code:<br>Send proposed code  |   |
|                                      |                   |                |     |                                       | For @Pos:<br>Do not send anything.  |   |

| Element: ExtendedInfos /ExtendedInfo |            |      |           |                              |  |   |
|--------------------------------------|------------|------|-----------|------------------------------|--|---|
|                                      |            |      |           |                              | For @Value:<br>Most recent intermediate point reached by the first competitor (1,2,3,..F).<br>Finish line is considered as an intermediate point.<br>Also consider intermediate points within legs.  |   |
|                                      | CURR_SHOOT |      | Numeric 0 | S(20) without leading zeroes | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send the shooting position number.<br>In the case of relay it is the overall shooting number for the team.<br>For @Value:<br>Send the competitor ID of the each athlete in the range. | In biathlon events for every competitor in the range. (overall message) |
|                                      |            | LANE |           | Numeric #0                   | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Lane number chosen by the athlete  |   |
| UI                                   | SHOOT      |      |           | Numeric 0                    | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send the shoot number for the athlete if they are in the range.<br>In the case of relay it is the overall shooting number for the team.        | In biathlon events (athlete message)                                    |

### Sample (overall)

```

.....
<ExtendedInfos>
  <ExtendedInfo Type="DISPLAY" Code="NEXT" Value="123456" />
  <ExtendedInfo Type="DISPLAY" Code="CURR_INTERMEDIATE" Value="3" />
  <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234562" >
    <Extension Code="LANE" Value="12" />
  </ExtendedInfo>
  <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234563" >
    <Extension Code="LANE" Value="5" />
  </ExtendedInfo>
  <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234564" >
    <Extension Code="LANE" Value="2" />
  </ExtendedInfo>
</ExtendedInfos>
.....

```

### Sample (athlete)

```

.....
<ExtendedInfos>
  <ExtendedInfo Type="UI" Code="SHOOT" Value="1" />
</ExtendedInfos>
.....

```

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

| Element: Result /ExtendedResults /ExtendedResult |           |                |           |            |  |   |
|--|-----------|----------------|-----------|------------|--|---|
| Type   | Code      | Extension code | Pos       | Value      | Description  | Expected                                    |
| ER   | SPARE_TOT |                |           | Numeric #0 | For @Type:<br>Send proposed type   | Biathlon relay events.<br>(athlete message) |
|  |           |                |           |            | For @Code:<br>Send proposed code   |   |
|  |           |                |           |            | For @Pos:<br>Do not send anything.   |   |
|  |           |                |           |            | For @Value:<br>Total number of spare rounds used by the athlete in the unit. (all spare rounds of completed shooting sessions, not including active shooting sessions) |   |
|  | PENALTY   |                | Numeric 0 | Numeric 0  | For @Type:<br>Send proposed type   | Biathlon events.<br>(athlete message)       |
|  |           |                |           |            | For @Code:<br>Send proposed code   |   |
|  |           |                |           |            | For @Pos:<br>Shoot number.<br>In the case of relay it is the overall shooting number for the team.   |   |
|  |           |                |           |            | For @Value:<br>Number of penalties for the athlete at this shooting point once the shooting session is terminated, not during a shooting session itself.               |   |
|  | SPARE     |                | Numeric 0 | S(2)       | For @Type:<br>Send proposed type   | Biathlon relay events.<br>(athlete message) |
|  |           |                |           |            | For @Code:<br>Send proposed code   |   |
|  |           |                |           |            | For @Pos:<br>Shoot number.<br>In the case of relay it is the overall shooting number for the team.   |   |
|  |           |                |           |            | For @Value:<br>Number of spare rounds used by the athlete at this shooting point once the shooting session is terminated, not during a shooting session itself.        |   |

#### 2.1.4.1 Sample (Biathlon)

```

.....
<ExtendedInfos>
  <ExtendedInfo Type="UI" Code="SHOOT" Value="1" />
</ExtendedInfos>
<UnitActions>
  <UnitAction Type="SHOOT" Code="1" Pos="1" Result="H" Value="5" />
  <UnitAction Type="SHOOT" Code="1" Pos="2" Result="H" Value="4" />
  <UnitAction Type="SHOOT" Code="1" Pos="3" Result="M" />
  <UnitAction Type="SHOOT" Code="1" Pos="4" Result="H" Value="3" />
.....
  <UnitAction Type="SHOOT" Code="2" Pos="5" Result="H" Value="1" />
</UnitActions>
<Result ResultType="PENALTY" Result="0" SortOrder="1" StartSortOrder="1" >
  <ExtendedResults>
    <ExtendedResult Type="ER" Code="PENALTY" Pos="1" Value="0" />
  </ExtendedResults>
  <Competitor Code="1234567" Type="A" Organisation="GER">
    <Composition>
      <Athlete Code="1234567" Bib="24" Order="1" />
    </Composition>
  </Competitor>
</Result>
.....

```

#### 2.1.4.2 Message sort

Not applicable.

## 2.1.5 Image

### 2.1.5.1 Description

The 'Image message' is a message containing an image or images file(s) in .jpg or .png format encapsulated in a XML message.

The message allows for multiple images but it is assumed the images are related (could be different resolutions, different states of a competition or different places in photofinish photos). Unrelated images should be sent separately.

### 2.1.5.2 Header Values

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

DocumentCode: Unit level RSC.

DocumentSubtype is PHOTOFINISH.

### 2.1.5.3 Trigger and Frequency

Triggered as soon as image available.

### 2.1.5.4 Message Structure

No applicable optional elements.

### 2.1.5.5 Message Values

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

| Element          | Attribute | M/O | Value      | Comments  |
|------------------|-----------|-----|------------|---|
| Image            | Pos       | M   | Numeric #0 | Used as differentiator if there are multiple images in the message.                           |
|                  | Version   | M   | Numeric #0 | Document Version  |
|                  | Revision  | M   | Numeric #0 | Document Revision   |
|                  | ImageType | M   | S(3)       | Image type extension, jpg or png  |
| Image /ImageData | -         | M   | Free Text  | The ImageData element has a body consisting of one Base64-encoded report (a jpeg or png file) |

### 2.1.5.6 Message sort

Please, follow the general definition.

## 2.1.6 Brackets

### 2.1.6.1 Description

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

### 2.1.6.2 Header Values

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

### 2.1.6.3 Trigger and Frequency

Please, follow the general definition also adding the trigger below:

- During the athlete selection of heats the message is sent LIVE until all heats are complete (then INTERMEDIATE)

### 2.1.6.4 Message Structure

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

- ExtendedInfos /SportDescription
- ExtendedInfos /VenueDescription
- Bracket /BracketItems /BracketItem

### 2.1.6.5 Message Values

The following table lists the Brackets optional attributes (defined in the ODF General Messages Interface Document) that are used, as well as the attributes that have an extended definition.

| Element   | Attribute      | M/O | Value                | Comments  |
|---|----------------|-----|----------------------|---|
| ExtendedInfos /SportDescription                                   | DisciplineName | M   | S(40)                | Text description from common codes  |
|   | EventName      | M   | S(40)                | Text short description, not code  |
|   | Gender         | M   | CC @DisciplineGender |   |
| ExtendedInfos /VenueDescription                                   | Venue          | M   | CC @VenueCode        | Venue code  |
|   | VenueName      | M   | S(25)                | Text short description, not code  |
|   | Location       | M   | CC @Location         | Location Code   |
|   | LocationName   | M   | S(30)                | Text short description, not code  |
| Bracket   | Code           | M   | CC @Bracket          | Bracket code to identify a bracket item.  |
| Bracket /BracketItems   | Code           | M   | CC @BracketItems     | Bracket code to identify a set of bracket items.  |
| Bracket /BracketItems /BracketItem                                | Code           | O   | Numeric #0           | Heat number in the phase.   |
|   | Order          | M   | Numeric #0           | Sequential number inside of BracketItems to indicate the order, always start at 1   |
|   | Date           | O   | Date                 | Date of BracketItem (example: YYYY-MM-DD). Must include if the data is available.   |
|   | Time           | O   | S(5)                 | Time of the BracketItem (example HH:MM) Must include if the data is available.  |
|   | Unit           | O   | CC @Unit             | Full RSC of the unit.   |
|   | Result         | O   | m:ss.ff              | Time of the winning competitor  |
|   | NextUnit       | O   | CC @Unit             | Not used in this sport as successful competitors do not progress to a fixed unit.   |
|   | NextUnitLoser  | O   | CC @Unit             | Not used in this sport as losers do not progress  |
| Bracket /BracketItems /BracketItem /CompetitorPlace               | Pos            | M   | Numeric 0            | This attribute is a sequential number to place the different competitors in the bracket (1, 2 ...). Before the unit it is by position number, after the unit rank by place in the unit. |
|   | Code           | O   | SC @CompetitorPlace  | If the competitor is not known yet send TBD.  |
|   | WLT            | O   | S(1)                 | Send W if the competitor progresses to the next phase or L if they do not progress.   |
| Bracket /BracketItems /BracketItem /CompetitorPlace /PreviousUnit | Unit           | O   | CC @Unit             | Full RSC of the unit where the competitor progressed from   |

| Element   | Attribute    | M/O | Value                        | Comments                           |
|---|--------------|-----|------------------------------|------------------------------------|
| Bracket<br>/BracketItems<br>/BracketItem<br>/CompetitorPlace<br>/Competitor | Code         | M   | S(20) with no leading zeroes | Competitor ID                      |
|   | Type         | M   | S(1)                         | A for Athlete or T for Team        |
|   | Organisation | O   | CC @Organisation             | Competitors' organisation if known |

The following table describes in more detail the CompetitorPlace /ExtCompPlaces /ExtCompPlace element

| Element: CompetitorPlace /ExtCompPlaces /ExtCompPlace |      |     |                        |   |                 |
|---|------|-----|------------------------|---|-----------------|
| Type  | Code | Pos | Value                  | Description   | Expected        |
| ECP   | DIFF |     | +m:ss.ff<br>or<br>0.00 | For @Type:<br>Send proposed type                                    | When available  |
|   |      |     |                        | For @Code:<br>Send proposed code                                    |                 |
|   |      |     |                        | For @Pos:<br>Do not send anything                                   |                 |
|   |      |     |                        | For @Value:<br>Send the time behind or<br>0.00 if winner.           |                 |
|   | IRM  |     | SC @IRM                | For @Type:<br>Send proposed type                                    | If IRM          |
|   |      |     |                        | For @Code:<br>Send proposed code                                    |                 |
|   |      |     |                        | For @Pos:<br>Do not send anything                                   |                 |
|   |      |     |                        | For @Value:<br>Send applicable code if<br>IRM applicable.           |                 |
|   | LL   |     | S(2)                   | For @Type:<br>Send proposed type                                    | For lucky loser |
|   |      |     |                        | For @Code:<br>Send proposed code                                    |                 |
|   |      |     |                        | For @ Pos:<br>Do not send anything                                  |                 |
|   |      |     |                        | For @Value:<br>Send "LL" is the<br>competitor is the lucky<br>loser |                 |

### Sample (Sprint)

```

.....
<Bracket Code="FNL">
  <BracketItems Code="SFL">
    <BracketItem Code="1" Order="1" Date="2018-02-16" Time="18:16" Unit="CCSMSprint-----
-----SFNL0001-----" Result="2:45.64" >
      <CompetitorPlace Pos="1" WLT="W" >
        <ExtCompPlaces>
          <ExtCompPlace Type="ECP" Code="DIFF" Value="0.0"/>
        </ExtCompPlaces>
        <PreviousUnit Unit="CCSMSprint-----QFNL0001-----" />
        <Competitor Code="2018975" Type="A" Organisation="NED">
          <Composition>
            <Athlete Code="2018975" Order="1" >
              <Description GivenName="John" FamilyName="Brown" Gender="M"
Organisation="NED" BirthDate="1994-11-15" />
            </Athlete>
          </Composition>
        </Competitor>
      </CompetitorPlace>
      <CompetitorPlace Pos="2" WLT="W" >
        <ExtCompPlaces>
          <ExtCompPlace Type="ECP" Code="DIFF" Value="+0.74"/>
        </ExtCompPlaces>
        <PreviousUnit Unit="CCSMSprint-----QFNL0001-----" />
        <Competitor Code="2024602" Type="A" Organisation="GER">
          <Composition>
            <Athlete Code="2024602" Order="1" >
              <Description GivenName="John" FamilyName="Smith" Gender="M"
Organisation="GER" BirthDate="1994-11-14" />
            </Athlete>
          </Composition>
        </Competitor>
      </CompetitorPlace>
    </BracketItem>
  </BracketItems>
</Bracket>
.....

```



#### 2.1.6.6 Message sort

Please, follow the general definition.

## 2.1.7 Event Final Ranking

### 2.1.7.1 Description

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

### 2.1.7.2 Header Values

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

One message is sent for each event.

### 2.1.7.3 Trigger and Frequency

Follow the general definition though the message is expected at the end of each phase along with each change.

### 2.1.7.4 Message Structure

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

- ExtendedInfos /SportDescription
- ExtendedInfos /VenueDescription
- Result /ExtendedResults

### 2.1.7.5 Message Values

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

| Element                         | Attribute      | M/O | Value                      | Comments   |
|---------------------------------|----------------|-----|----------------------------|--|
| ExtendedInfos /SportDescription | DisciplineName | M   | S(40)                      | Text description from common codes   |
|                                 | EventName      | M   | S(40)                      | Text short description, not code   |
|                                 | Gender         | M   | CC @DisciplineGender       |  |
| ExtendedInfos /VenueDescription | Venue          | M   | CC @VenueCode              | Venue Code   |
|                                 | VenueName      | M   | S(25)                      | Text short description, not code   |
| Result                          | Rank           | O   | String                     | Final rank of the competitor in the corresponding event. This attribute is optional because the competitor could get an empty rank in the case of an IRM for example.  |
|                                 | RankEqual      | O   | S(1)                       | Send Y if the rank is equalled, else do not send   |
|                                 | Result         | O   | m:ss.ff<br>or<br>h:mm:ss.f | Time for the competitor. Do not send leading zeros. Decimals vary according to sport rules.  |
|                                 | ResultType     | O   | SC @ResultType             | Result type, for the corresponding event, mandatory if Result or IRM is included.  |
|                                 | IRM            | O   | SC @IRM                    | Send if the competitor has an IRM  |
|                                 | SortOrder      | M   | Numeric                    | This attribute is a sequential number with the order of the results for the particular event, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank. |

The following table describes in more detail the Competition /Result /ExtendedResults /ExtendedResult.

| Element: Competition /Result /ExtendedResults /ExtendedResult |      |     |                                |  |  |
|---|------|-----|--------------------------------|--|--|
| Type  | Code | Pos | Value                          | Description  | Expected   |
| ER  | DIFF |     | m:ss.f<br>or<br>0.0 for winner | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code | When available in relay and individual events (not sprint) |

| Element: Competition /Result /ExtendedResults /ExtendedResult |            |  |                    |  |  |
|---|------------|--|--------------------|--|--|
|   |            |  |                    | For @Pos<br>Do not send anything   |  |
|   |            |  |                    | For @Value:<br>Time behind the leader  |  |
|   | LAST_PHASE |  | SC<br>@ResultPhase | For @Type:<br>Send proposed type   | In individual and team sprint events                                   |
|   |            |  |                    | For @Code:<br>Send proposed code   |  |
|   |            |  |                    | For @Pos<br>Do not send anything   |  |
|   |            |  |                    | For Value:<br>Last phase reached by the competitor   |  |
|   | NEXT_PHASE |  | SC<br>@ResultPhase | For @Type:<br>Send proposed type   | Only if the competition is not complete in the individual sprint event |
|   |            |  |                    | For @Code:<br>Send proposed code   |  |
|   |            |  |                    | For @Pos<br>Do not send anything   |  |
|   |            |  |                    | For Value:<br>Next phase for the competitors if they have not completed their participation. |  |

### 2.1.7.6 Sample

```

.....
<Result SortOrder="2" ResultType="TIME" Rank="2" Result="23:15.86">
  <ExtendedResults>
    <ExtendedResult Type="ER" Code="DIFF" Value="+0.97" />
    <ExtendedResult Type="ER" Code="LAST_PHASE" Value="F" />
  </ExtendedResults>
  <Competitor Code="CCSMTeamSp2-RUS01" Type="T" Organisation="RUS" >
    <Description TeamName="Russia" />
    <Composition>
      <Athlete Code="2000691" Order="1" >
        <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="RUS"
        BirthDate="1994-11-15" />
      </Athlete>
      <Athlete Code="2000821" Order="2" >
        <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="RUS"
        BirthDate="1994-11-15" />
      </Athlete>
    </Composition>
  </Competitor>
</Result>
.....

```

### 2.1.7.7 Message sort

Please, follow the general definition

## 2.1.8 Weather Conditions

### 2.1.8.1 Description

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

### 2.1.8.2 Header Values

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

### 2.1.8.3 Trigger and Frequency

Please, follow the general definition.

### 2.1.8.4 Message Structure

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

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

### 2.1.8.5 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   | SC @WeatherPoint                           | Weather points, send GEN (Stadium), HIGH and LOW                               |
|                                  | Humidity       | O   | Numeric ##0                                | Humidity in %  |
|                                  | Wind_Direction | O   | CC @WindDirection                          | Wind direction   |
|                                  | Prec_Type      | O   | SC @PrecType                               | Precipitation Type if applicable   |
| Weather /Conditions /Condition   | Code           | M   | S(4)                                       | Weather condition type, send SKY and SNOW                                      |
|                                  | Value          | M   | CC @WeatherCondition<br>CC @SnowConditions | Use CC @WeatherConditions for SKY<br>Use CC @SnowConditions for SNOW           |
| Weather /Conditions /Temperature | Code           | M   | S(4)                                       | Temperature type, send AIR, SNOW   |
|                                  | Unit           | M   | SC @TemperatureUnit                        | Unit for temperature, send both  |
|                                  | Value          | M   | Numeric #0.0                               | Temperature of the @Code. Negative if applicable. Do not send '+' if positive. |
| Weather /Conditions /Wind        | Code           | M   | S(5)                                       | Wind Speed, send SPEED   |
|                                  | Unit           | M   | SC @WindUnit                               | Unit for Wind. Use MS and KMH  |
|                                  | Value          | M   | Numeric ##0.0                              | Wind speed in @Unit.   |

### Sample

```

.....
<Weather>
.....
<Conditions Code="HIGH" Humidity="49" Wind_Direction="SE">
  <Condition Code="SKY" Value="pc" />
  <Condition Code="SNOW" Value="hrd" />
  <Temperature Code="AIR" Unit="C" Value="2.8" />
  <Temperature Code="AIR" Unit="F" Value="37.0" />
  <Temperature Code="SNOW" Unit="C" Value="-2.4" />
  <Temperature Code="SNOW" Unit="F" Value="27.7" />
  <Wind Code="SPEED" Unit="KMH" Value="7.2" />
  <Wind Code="SPEED" Unit="MS" Value="2.0" />
</Conditions>
<Conditions Code="LOW" Humidity="37" Wind_Direction="VR">
  <Condition Code="SKY" Value="pc" />
  <Condition Code="SNOW" Value="hrd" />
  <Temperature Code="AIR" Unit="C" Value="8.8" />
  <Temperature Code="AIR" Unit="F" Value="47.8" />
  <Temperature Code="SNOW" Unit="C" Value="0.3" />
  <Temperature Code="SNOW" Unit="F" Value="32.5" />
  <Wind Code="SPEED" Unit="KMH" Value="0.0" />
  <Wind Code="SPEED" Unit="MS" Value="0.0" />
</Conditions>
</Weather>

```

#### 2.1.8.6 Message sort

Please, follow the general definition.

## 2.1.9 Configuration

### 2.1.9.1 Description

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

### 2.1.9.2 Header Values

Send one message per unit with the unit level DocumentCode for single unit events.

Send one message per phase with the phase level DocumentCode for multiple unit events.

### 2.1.9.3 Trigger and Frequency

Please, follow the general definition.

### 2.1.9.4 Message Structure

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

- ExtendedConfigItem

### 2.1.9.5 Message Values

Send the attributes and codes according to the tables described in this section.

The following table lists the Discipline configuration optional attributes (defined in the ODF General Messages Interface Document) that are used, as well as the attributes that have an extended definition.

The following table describes in more detail the Competition ExtendedConfig element.

| Element: ExtendedConfig |             |                         |           |               |  |                |
|-------------------------|-------------|-------------------------|-----------|---------------|--|----------------|
| Type                    | Code        | ExtendedConfigItem Code | Pos       | Value         | Description  | Expected       |
| FIS                     | CODEX       |                         |           | String        | For @Type: Send proposed type  | When available |
|                         |             |                         |           |               | For @Code: Send proposed code  |                |
|                         |             |                         |           |               | For @Pos: Do not send anything   |                |
|                         |             |                         |           |               | For @Value: FIS Codex  |                |
| COURSE                  | NAME        |                         | Numeric 0 | String        | For @Type: Send proposed type  | When available |
|                         |             |                         |           |               | For @Code: Send proposed code  |                |
|                         |             |                         |           |               | For @Pos: If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second. |                |
|                         |             |                         |           |               | For @Value: Name of the course in ENG  |                |
|                         | ALTITUDE    |                         |           | Numeric ###0  | For @Type: Send proposed type  | Always         |
|                         |             |                         |           |               | For @Code: Send proposed code  |                |
|                         |             |                         |           |               | For @Pos: Do not send anything   |                |
|                         |             |                         |           |               | For @Value: Send the altitude of the stadium (start/finish) in metres  |                |
|                         | HEIGHT_DIFF |                         | Numeric 0 | Numeric ###0  | For @Type: Send proposed type  | Always         |
|                         |             |                         |           |               | For @Code: Send proposed code  |                |
|                         |             |                         |           |               | For @Pos: If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second. |                |
|                         |             |                         |           |               | For @Value: Send the total difference in height from the low point to the highest point. (metres)                            |                |
|                         | LENGTH      |                         | Numeric 0 | Numeric ####0 | For @Type: Send proposed type  | Always         |
|                         |             |                         |           |               | For @Code: Send proposed code  |                |
|                         |             |                         |           |               | For @Pos: If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second. |                |
|                         |             |                         |           |               |  |                |

| Element: ExtendedConfig                       |   |     |              |                                   |   |   |
|---|---|-----|--------------|-----------------------------------|---|---|
|   |   |     |              |                                   | For @Value:<br>Send the total length of the course in m.  |   |
|   | LAP   |     | Numeric 0    | Numeric ####0                     | For @Type:<br>Send proposed type  | When available in cross country                   |
|   |   |     |              |                                   | For @Code:<br>Send proposed code  |   |
|   |   |     |              |                                   | For @Pos:<br>If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second. |   |
|   | For @Value:<br>Send the lap length in m.                |     |              |                                   |   |   |
|   |   | NUM |              | Numeric #0                        | For @Code:<br>Send proposed code  | When available in cross country                   |
|   |   |     |              |                                   | For @Pos:<br>Do not send anything   |   |
|   |   |     |              |                                   | For @Value:<br>Number of laps   |   |
|   | CLIMB   |     | Numeric 0    | Numeric ###0                      | For @Type:<br>Send proposed type  | Always  |
|   |   |     |              |                                   | For @Code:<br>Send proposed code  |   |
| For @Pos:<br>Do not send anything             |   |     |              |                                   |   |   |
| For @Value:<br>Course Total Climb in metres   |   |     |              |                                   |   |   |
|   | MAX   |     | Numeric ###0 | For @Type:<br>Send proposed type  | Always  |   |
|   |   |     |              | For @Code:<br>Send proposed code  |   |   |
|   |   |     |              | For @Pos:<br>Do not send anything |   |   |
| For @Value:<br>Course Maximum Climb in metres |   |     |              |                                   |   |   |
| EC  | SHOOT   |     | S(2)         | S(1)                              | For @Type:<br>Send proposed type  | Always in Biathlon                                |
|   |   |     |              |                                   | For @Code:<br>Send proposed code  |   |
|   |   |     |              |                                   | For @Pos:<br>Send the shooting number 1..n for each shooting effort on the course   |   |
|   | For @Value:<br>Type of shoot, P = Prone<br>S = Standing |     |              |                                   |   |   |
|   | INTERMEDIATE  |     | S(2)         | Numeric #0.0#                     | For @Type:<br>Send proposed type  | Always for all intermediates including those with |
|   |   |     |              | For @Code:<br>Send proposed code  |   |   |



| Element: ExtendedConfig |  |             |           |           |   |   |
|-------------------------|--|-------------|-----------|-----------|---|---|
|                         |  |             |           |           | <p>For @Pos:<br/>Send the value that identifies the intermediate point, 1 to n for intermediates along the course and F for the finish point.</p> <p>For @Value:<br/>Distance from the start in km for the intermediate.</p>                            | a leg in relays. Not required in sprint events.                                       |
|                         |  | SHOOT_START |           | Numeric 0 | <p>For @Code:<br/>Send proposed code</p> <p>For @Pos:<br/>Do not send anything</p> <p>For @Value:<br/>Shooting session number, only if this intermediate point immediately before a shooting. Send 1..n for the shooting point.</p>                     | Only in biathlon and only if this intermediate is the entrance to a shooting session. |
|                         |  | SHOOT_END   |           | Numeric 0 | <p>For @Code:<br/>Send proposed code</p> <p>For @Pos:<br/>Do not send anything</p> <p>For @Value:<br/>Shooting session number, only if this intermediate point immediately after a shooting. Send 1..n for the shooting point.</p>                      | Only in biathlon and only if this intermediate is the end of a shooting session.      |
|                         |  | SHOOT_COMP  |           | Numeric 0 | <p>For @Code:<br/>Send proposed code</p> <p>For @Pos:<br/>Do not send anything</p> <p>For @Value:<br/>Send 1..n for the number of shootings completed at this intermediate.</p>   | Always in biathlon  |
|                         |  | LEG         | Numeric 0 | S(2)      | <p>For @Code:<br/>Send proposed code</p> <p>For @Pos:<br/>Send the leg number of the team</p> <p>For @Value:<br/>Send the INTERMEDIATE within the leg 1..F. If Pos = 2 and Value=F then it is the start point for leg 3 and the end point for leg 2</p> | Team events only  |
|                         |  | LOOP        |           | S(2)      | <p>For @Code:<br/>Send proposed code</p> <p>For @Pos:<br/>Do not send anything</p>  | If applicable in biathlon   |

| Element: ExtendedConfig |                   |                   |      |               |   |                                 |
|-------------------------|-------------------|-------------------|------|---------------|---|---------------------------------|
|                         |                   |                   |      |               | For @Value:<br>Send 1..n for the loop number if this intermediate corresponds to the end of a loop.   |                                 |
|                         | INTERMEDIATES_NUM |                   |      | Numeric #0    | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send the total number of intermediate points where the time is recorded including F.            | Always except in sprint events. |
|                         | PRETIMING         |                   | S(2) | Numeric #0.0# | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send the value that identifies the pre-timing point, 1 to n.<br>For @Value:<br>Distance from the start in km for the pre-timing point. | Only for interval start events  |
|                         |                   | NEXT_INTERMEDIATE |      | Numeric #0    | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send the total number of intermediate points where the time is recorded including F.  | Only for interval start events  |
|                         | PRETIMING_NUM     |                   |      | Numeric #0    | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send the total number of pre-timing points.   | Only for interval start events  |
|                         | LOOP              |                   | S(2) | Numeric #0.0  | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send the loop number. 1..n<br>For @Value:<br>Length of the loop in km.   | Always in biathlon              |
|                         |                   | COLOUR            |      | S(15)         | For @Code:<br>Send proposed code  | Always in biathlon              |

| Element: ExtendedConfig |          |              |      |               |   |                              |
|-------------------------|----------|--------------|------|---------------|---|------------------------------|
|                         |          |              |      |               | For @Pos:<br>Do not send anything<br>For @Value:<br>Colour label of the loop  |                              |
|                         |          | LETTER       |      | S(1)          | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Letter label of the loop, uppercase.  | Always in biathlon           |
|                         |          | SHOOT        |      | Numeric 0     | For @Code:<br>Send proposed code<br>For @Pos:<br>Do not send anything<br>For @Value:<br>Send the shoot number on this loop  | If applicable in biathlon    |
|                         | LEG      |              | S(2) | Numeric #0.0# | For @Type:<br>Send proposed type<br>For @Code:<br>Send proposed code<br>For @Pos:<br>Send the value that identifies the leg in the team event, 1 to n for each leg.<br>For @Value:<br>Distance from the start in km to the end of the leg.            | Team sprint and relay events |
|                         |          | INTERMEDIATE | S(2) | Numeric #0.0# | For @Code:<br>Send proposed code<br>For @Pos:<br>Send the value that identifies the intermediate point, 1,2.. to F for intermediates in the leg, including the end.<br>For @Value:<br>Distance from the start of the leg in km for the intermediate.  |                              |
|                         |          | CUMULATIVE   | S(2) | Numeric #0.0# | For @Code:<br>Send proposed code<br>For @Pos:<br>Send the value that identifies the intermediate point, 1,2.. to F for intermediates in the leg, including the end.<br>For @Value:<br>Distance from the start of the race in km for the intermediate. |                              |
|                         | LEGS_NUM |              |      | Numeric #0    | For @Type:<br>Send proposed type  | Team sprint and relay        |

| Element: ExtendedConfig     |           |  |  |            |   |  |
|-----------------------------|-----------|--|--|------------|---|--|
| QUALIFICATION<br>(by phase) |           |  |  |            | For @Code:<br>Send proposed code  | events                                 |
|                             |           |  |  |            | For @Pos:<br>Do not send anything   |  |
|                             |           |  |  |            | For @Value:<br>Send the total number of intermediate points where the time is recorded including F.   |  |
|                             |           |  |  |            |   |  |
|                             | FROM_RANK |  |  | Numeric #0 | For @Type:<br>Send proposed type  | When applicable                        |
|                             |           |  |  |            | For @Code:<br>Send proposed code  |  |
|                             |           |  |  |            | For @Pos:<br>Do not send anything   |  |
|                             |           |  |  |            | For @Value:<br>Send the qualifying rank to indicate first rank to qualify   |  |
|                             | TO_RANK   |  |  | Numeric #0 | For @Type:<br>Send proposed type  | When applicable                        |
|                             |           |  |  |            | For @Code:<br>Send proposed code  |  |
|                             |           |  |  |            | For @Pos:<br>Do not send anything   |  |
|                             |           |  |  |            | For @Value:<br>Send the qualifying rank to indicate last rank to qualify  |  |
|                             | QUAL_BT   |  |  | Numeric #0 | For @Type:<br>Send proposed type  | When some competitors qualify by time. |
|                             |           |  |  |            | For @Code:<br>Send proposed code  |  |
|                             |           |  |  |            | For @Pos:<br>Do not send anything   |  |
|                             |           |  |  |            | For @Value:<br>Number of competitors to advance (based in time qualification)<br>For example: In the individual sprint<br>Value =2 (for the 2 lucky losers) |  |
|                             | QUAL_RULE |  |  | S(100)     | For @Type:<br>Send proposed type  | When applicable pre-finals             |
|                             |           |  |  |            | For @Code:<br>Send proposed code  |  |
|                             |           |  |  |            | For @Pos:<br>Do not send anything   |  |
|                             |           |  |  |            | For @Value:<br>Text description of the qualification rule for next phase.   |  |

### 2.1.9.6 Samples

```

.....
<Configs>
  <Config Unit="CCSWskiathln-----FNL-0001-----">
    <ExtendedConfig Type="COURSE" Code="NAME" Pos="1" Value="3.75 km C red" />
    <ExtendedConfig Type="COURSE" Code="HEIGHT_DIFF" Pos="1" Value="35" />
    <ExtendedConfig Type="COURSE" Code="LAP" Pos="1" Value="3883" >
      <ExtendedConfigItem Code="NUM" Value="2" />
    </ExtendedConfig>
    <ExtendedConfig Type="COURSE" Code="CLIMB" Pos="1" Value="280" >
      <ExtendedConfigItem Type="COURSE" Code="MAX" Value="42" />
    </ExtendedConfig>
    <ExtendedConfig Type="COURSE" Code="NAME" Pos="2" Value="3.75 km C blue" />
    <ExtendedConfig Type="COURSE" Code="HEIGHT_DIFF" Pos="2" Value="87" />
    <ExtendedConfig Type="COURSE" Code="LAP" Pos="2" Value="3985" >
      <ExtendedConfigItem Code="NUM" Value="2" />
    </ExtendedConfig>
    <ExtendedConfig Type="COURSE" Code="CLIMB" Pos="2" Value="284" >
      <ExtendedConfigItem Type="COURSE" Code="MAX" Value="56" />
    </ExtendedConfig>
    <ExtendedConfig Type="EC" Code="INTERMEDIATES_NUM" Value="9" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="1" Value="1.7" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="2" Value="3.75" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="3" Value="5.4" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="4" Value="7.4" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="5" Value="7.5" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="6" Value="9.5" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="7" Value="11.25" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="8" Value="13.3" />
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="F" Value="15.0" />
  </Config>
.....

```

### Team Events

```

.....
<ExtendedConfig Type="EC" Code="LEGS_NUM" Value="4" />
  <ExtendedConfig Type="EC" Code="LEG" Pos="1" Value="5.0" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="1" Value="1.7" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="2" Value="2.5" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="3" Value="4.2" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="F" Value="5.0" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="1" Value="1.7" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="2" Value="2.5" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="3" Value="4.2" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="F" Value="5.0" />
  <ExtendedConfig Type="EC" Code="LEG" Pos="2" Value="10.0" >
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="1" Value="1.7" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="2" Value="2.5" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="3" Value="4.2" />
    <ExtendedConfigItem Code="INTERMEDIATE" Pos="F" Value="5.0" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="1" Value="6.7" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="2" Value="7.5" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="3" Value="9.2" />
    <ExtendedConfigItem Code="CUMULATIVE" Pos="F" Value="10.0" />
  </ExtendedConfig>
.....

```

## Biathlon

```

.....
<Config Unit="BTHM10kmSp-----FNL-0001----">
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3388m" />
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    <ExtendedConfigItem Code="SHOOT_COMP" Value="0" />
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  </ExtendedConfig>
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  </ExtendedConfig>
</Config>
.....

```

### 2.1.9.7 Message sort

Please, follow the general definition.

## 2.2 Message timeline

### 2.2.1 Preparation Phase

| Trigger                             | Message                                | Status | D | E | P | S | U |
|-------------------------------------|--|--------|---|---|---|---|---|
| OVR gets Initial data               | DT_CODES (Ab WOG2018)                  |        | X |   |   |   |   |
|                                     | DT_SCHEDULE                            |        | X |   |   |   | o |
|                                     | DT_PARTIC                              |        | X |   |   |   |   |
|                                     | DT_PARTIC_TEAM                         |        | X |   |   |   |   |
| OVR sends                           | DT_CONFIG                              |        | X |   | o |   | o |
|                                     | DT_BRACKETS                            |        |   | X |   |   | o |
|                                     | <a href="#">DT_PDF C08 Schedule</a>    |        | X | o |   |   |   |
| After changes of athlete data       | DT_PARTIC_UPDATE                       |        | X |   |   |   |   |
| After changes of team data          | DT_PARTIC_TEAM_UPDATE                  |        | X |   |   |   |   |
| When athlete/team data is confirmed | <a href="#">DT_PDF C32x Entry List</a> |        | X |   |   |   |   |

### 2.2.2 Before and During Individual, Pursuit

| Trigger                                    | Message                                | Status        | D | E | P | S | U |
|--|--|---------------|---|---|---|---|---|
| As soon as the start list is known (-120') | DT_RESULT for each unit                | START_LIST    |   |   |   |   | X |
|  | <a href="#">DT_PDF C51x Start List</a> |               |   | X |   |   |   |
| <b>Individual Start</b>                    |  |               |   |   |   |   |   |
| At scheduled start (-0.5)                  | DT_SCHEDULE_UPDATE                     | GETTING_READY | X |   |   | o | o |
| <b>Mass Start</b>                          |  |               |   |   |   |   |   |
| At scheduled start (-1)                    | DT_SCHEDULE_UPDATE                     | GETTING_READY | X |   |   | o | o |
| <b>All</b>                                 |  |               |   |   |   |   |   |
| Event unit starts (First Athlete starts)   | DT_SCHEDULE_UPDATE                     | RUNNING       | X |   |   | o | o |
|  | DT_RESULT                              | LIVE          |   |   |   |   | X |
|  | DT_CURRENT                             |               |   |   |   |   | X |
| Time received                              | DT_CURRENT                             |               |   |   |   |   | X |
| *  |  |               |   |   |   |   |   |
| ...  | DT_RESULT                              | LIVE          |   |   |   |   | X |
| *  |  |               |   |   |   |   |   |
| * repeated for each athlete                |  |               |   |   |   |   |   |

### 2.2.3 After competition

| Trigger                       | Message                            | Status      | D | E | P | S | U |
|-------------------------------|------------------------------------|-------------|---|---|---|---|---|
| <b>Last Result Mass-Start</b> | DT_RESULT                          | UNCONFIRMED |   |   |   |   | X |
|                               | DT_SCHEDULE_UPDATE                 | FINISHED    | X |   |   |   | o |
| Stats are entered             | DT_RESULT                          | UNOFFICIAL  |   |   |   |   | X |
|                               |                                    |             |   |   |   |   |   |
| <b>Last Result Individual</b> | DT_RESULT                          | UNOFFICIAL  |   |   |   |   | X |
|                               | DT_SCHEDULE_UPDATE                 | FINISHED    | X |   |   |   | o |
|                               |                                    |             |   |   |   |   |   |
| Race confirmed                | DT_RESULT                          | OFFICIAL    |   |   |   |   | X |
|                               | <a href="#">DT_PDF C73 Results</a> |             |   |   |   |   | X |

### 2.2.4 At the end of the event

| Trigger                           | Message                               | Status   | D | E | P | S | U |
|-----------------------------------|---------------------------------------|----------|---|---|---|---|---|
| After last event unit is official | DT_MEDALLIST                          | OFFICIAL |   | X |   |   |   |
|                                   | DT_MEDALLIST_DISCIPLINE               |          | X |   |   |   |   |
|                                   | DT_RANKING                            | OFFICIAL |   | X |   |   |   |
|                                   | <a href="#">DT_PDF C92x Medallist</a> |          |   | X |   |   |   |
|                                   |                                       |          |   |   |   |   |   |



### 3 Document Control

| Version history        |             |                             |
|------------------------|-------------|-----------------------------|
| Version                | Date        | Comments                    |
| WYOG-2016-BTH-CCS-v1.0 | 11 Sep 2015 | First Version               |
| WYOG-2016-BTH-CCS-v1.1 | 1 Oct 2015  | Updated                     |
| WYOG-2016-BTH-CCS-v1.1 | 3 Dec 2015  | Approved with no changes    |
| WYOG-2016-BTH-CCS-v1.2 | 8 Feb 2016  | Approved with small changes |

**File reference:** ODF/INT011-WYOG-2016-BTH-CCS-v1.2 APP

| Change Log             |        |   |
|------------------------|--------|---|
| Version                | Status | Changes on version                                    |
| WYOG-2016-BTH-CCS-v1.0 | SFR    | First version   |
| WYOG-2016-BTH-CCS-v1.1 | SFR    | Add LIVE to DT_BRACKETS<br>Add WAVE in EventUnitEntry |
| WYOG-2016-BTH-CCS-v1.1 | APP    | Approved with no changes                              |
| WYOG-2016-BTH-CCS-v1.2 | APP    | Message timeline added.                               |

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